

# Uptimax Ni-Cd Battery

Maintenance-free solution for backup power applications



# Uptimax

## The ideal choice for total security and availability

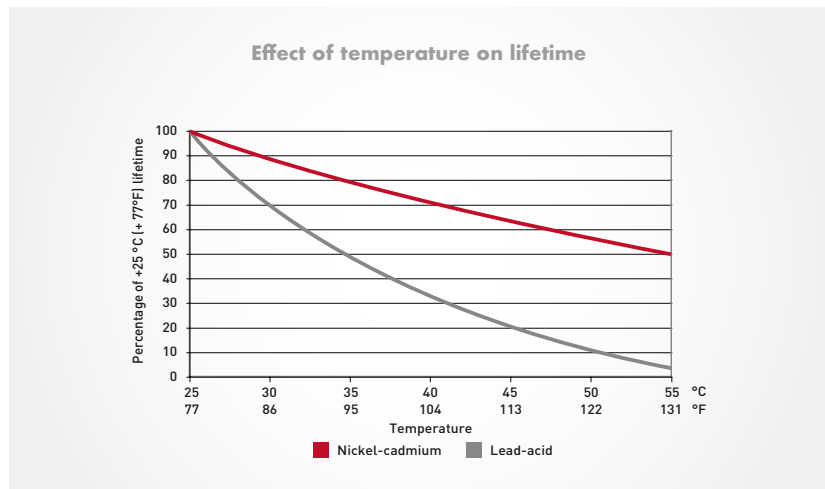


### Saft – your trusted battery partner for stationary applications

Saft has over 100 years of experience working in partnership with leading industrial customers to deliver well-proven Ni-Cd battery solutions optimized to ensure the total security and availability of stationary applications including power backup, engine starting and bulk energy storage. Our R&D and engineering philosophy is focused on continual improvement of every aspect of our technologies and industrial processes, ensuring that all Saft products and components are designed and manufactured to the very highest quality standards. Saft's comprehensive global service provides expert support throughout every stage of your battery's life from initial concept through volume supply, installation and training to end of life recycling.

### Uptimax ensures total reliability and long life – even at high temperatures

Saft's robust Ni-Cd technology sets the benchmark for industrial batteries operating in difficult and demanding conditions. It has established a reputation for performance, reliability and a long, totally predictable, service life – with no risk of sudden death failure. Uptimax builds on this heritage by ensuring a 20-year plus service life at + 25°C (+ 77°F). Even at + 35°C (+ 95°F), its lifetime falls by just 20% compared with a 50% reduction for a lead-acid battery.



# Uptimax

## The 1<sup>st</sup> Ni-Cd battery for Plug & Play replacement of lead-acid



### The perfect fit to replace lead-acid batteries:

The latest generation of Uptimax is the perfect fit to replace lead-acid batteries. Thanks to its 1.39 V/cell single level charge without the need for boost charge, Uptimax can be charged in all commonly used DC-systems with +/- 10% voltage window. This reduces the need for dropping diodes or DC/DC converters, and as a consequence it decreases the overall cost of DC-systems.

When a fast recharge is needed, 95% State-Of-Charge (SOC) in 8h can be reached at 1.45 V/cell for maximum availability after a power failure and minimum downtime.

### Uptimax: The maintenance-free<sup>(1)</sup> battery for stationary applications

Uptimax is Saft's latest development in Ni-Cd pocket plate battery technology. It combines maintenance-free<sup>(1)</sup> operation with total reliability to provide the ideal backup power solution for industrial installations.

Together with other key features such as its low pressure flame arresting vent, high electrical performance and chargeability, Uptimax delivers an optimized TCO (Total Cost of Ownership).

(1) Maintenance-free means that no addition of water is necessary during the life time of the product when operating under Saft's recommended conditions.



# Uptimax

## Delivering high performance and maintenance-free operation



### Maintenance-free<sup>(1)</sup> design reduces battery service costs

Uptimax is maintenance-free<sup>(1)</sup> thanks to a new high-tech design concept.

- Uptimax never needs water to be added throughout its entire service life (under Saft's recommended operating conditions - from - 20°C (- 4°F) to + 40°C (+ 104°F).
- Maintenance is reduced to a minimum: only preventive maintenance is necessary.
- The high level of gas recombination is beyond the requirements of IEC 62259 (recombination level higher than 95%), and reduces water consumption and gas emissions.
- Uptimax is equipped with a low pressure flame arresting vent which operates as a valve regulated vent.

### High performance optimizes battery life cost

Uptimax offers high performance. This enables installers to specify a battery optimized for their specific application, saving on initial purchase costs.

- Uptimax design enables high battery electrical performance whatever discharge time is needed.
- Commissioning is simple and easy, even up to 6 months of storage it can still be carried out using any commercially available charger.

### Good chargeability minimizes battery downtime

Uptimax features fast and simple charging, within a narrow voltage window, for minimal downtime and maximum availability.

- Single or two-level charging regimes are possible:
  - Single level charge
    - 1.39 or 1.42 +/- 0.01 V/cell
  - Two level charge
    - Float level: 1.39 or 1.42 +/- 0.01 V/cell
    - High level: 1.45 ± 0.01 V/cell
- The fast recharge enables 95% SOC in 8h at 1.45 V/cell for maximum availability after a power failure, at + 20°C (+ 68°F), after a constant voltage charge at 1.39 V/cell for 15 hours with an available charge current of 0.1 C5A.

<sup>(1)</sup> The term maintenance-free means that no addition of water is necessary during the life time of the product when operating under Saft's recommended conditions.

# Uptimax

## Developed for demanding industrial installations



### Uptimax: Vital support for critical systems

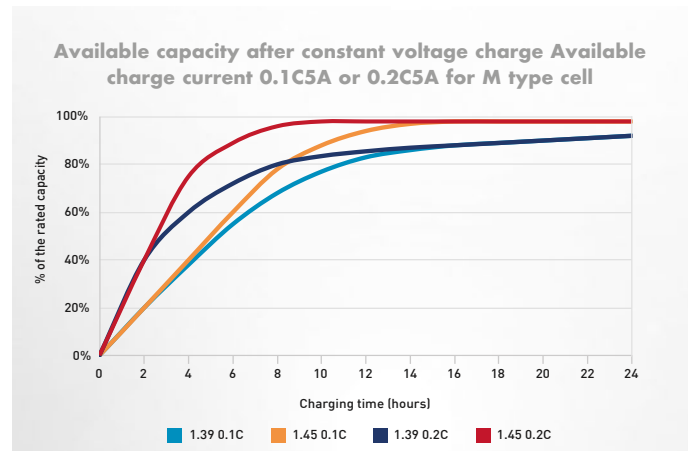
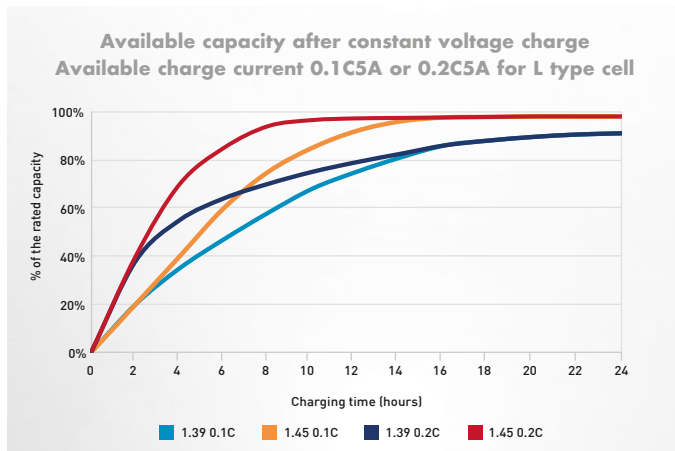
Uptimax batteries are at the heart of power backup systems throughout the oil & gas exploration and production, utility and manufacturing industries. If mains power is lost, Uptimax delivers the vital power to ensure the continuity of mission-critical loads, facilitate safe shutdown processes, bridge to standby power and safeguard computer data. Typical power backup applications include: UPS, substation, switchgear, process control systems, emergency lighting, fire alarms and security systems.

### Total reliability ensures the safe operation of your industrial equipment, in even the most demanding operating conditions

Uptimax provides complete peace of mind, whatever the application, whatever the location.

- Total reliability is based on a unique Ni-Cd electrochemistry/technology combined with the well proven Saft Nife® pocket plate design

- It enables a long service life of over 20 years at + 25°C (+ 77°F)
- Robust construction eliminates risk of sudden death failure
- Uptimax delivers long life and outstanding performance in temperatures up to + 40°C (+ 104°F) and tolerates - 40°C (- 40°F) to + 70°C (+ 158°F) for short durations.



# Uptimax

## Modular approach based on flexible block configurations



### Facilitates ease of handling, installation and operation

Uptimax batteries make transportation, installation and operation fast and easy.

- Batteries are only delivered filled with electrolyte and in electrically charged condition.
- Storage for up to 2 years in normal conditions is possible.
- Design enables batteries to be assembled in blocks of up to 10 cells connected in series.
- Flexible block configuration makes the battery easy and fast to install.

### Uptimax construction features

Low pressure vent

Terminal pillars protected by covers in line with EN 50272-2 / IEC 62485-2 (safety) with IP2 level

Plate group bus bar

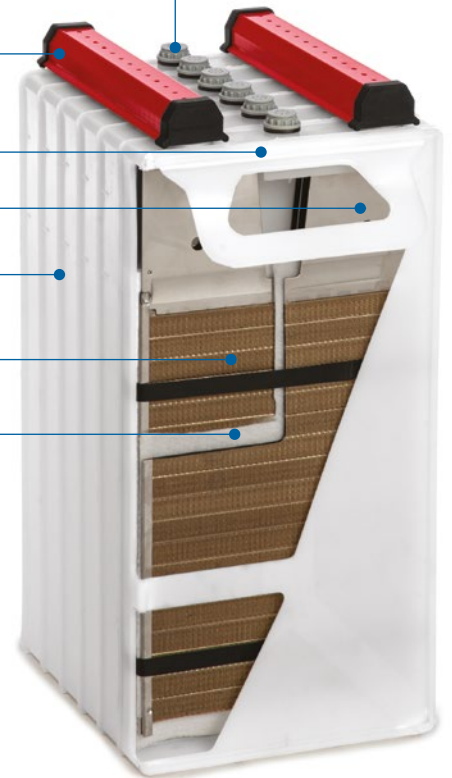
Plate tab

Polypropylene cell container

Pocket plate

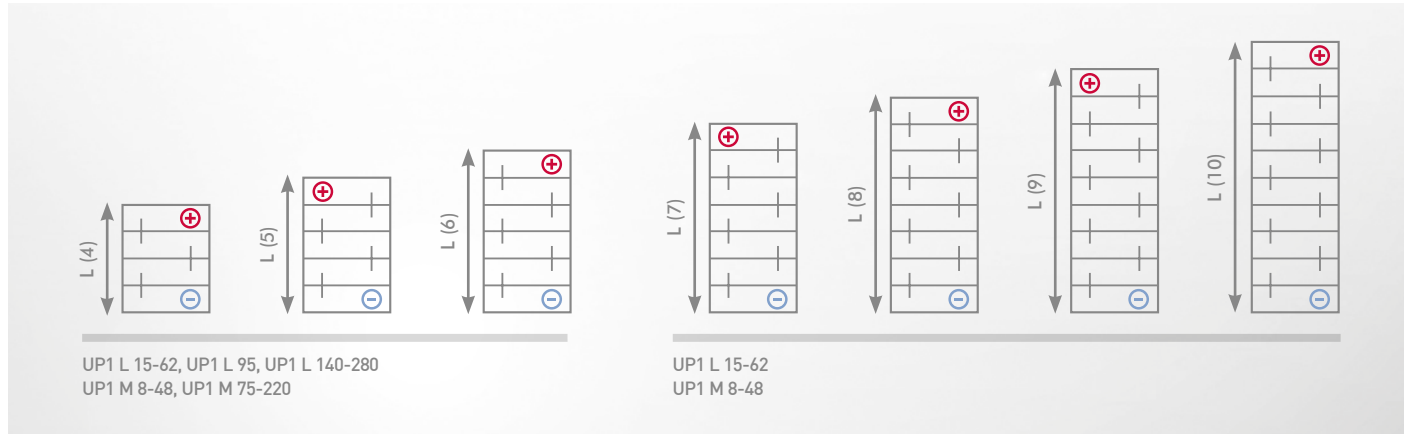
Polypropylene fibrous separators

*Cells are welded together to form a rugged block up to 10 depending on cell size and type*

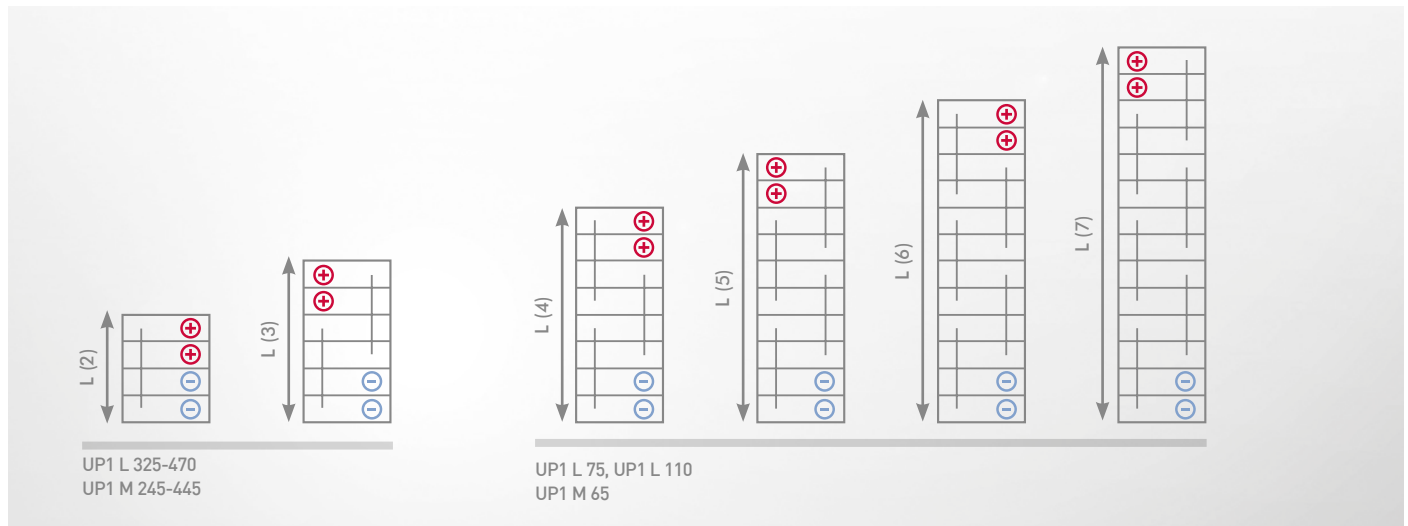


## Flexible configuration based on cell blocks

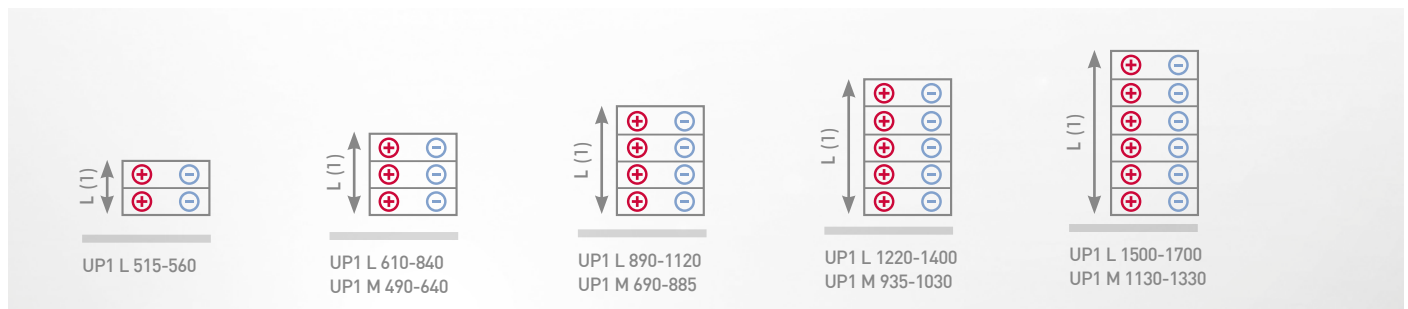
With single pole bolts



With double pole bolts



With 2-6 bolts per pole, crosswise mounted on racks



# Uptimax

## Easy to operate and install



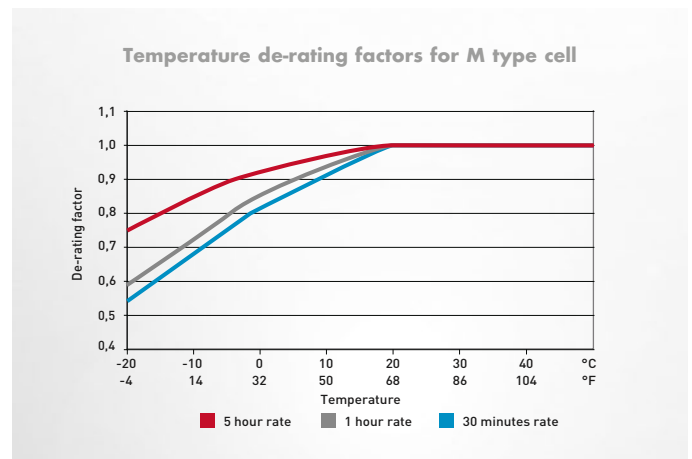
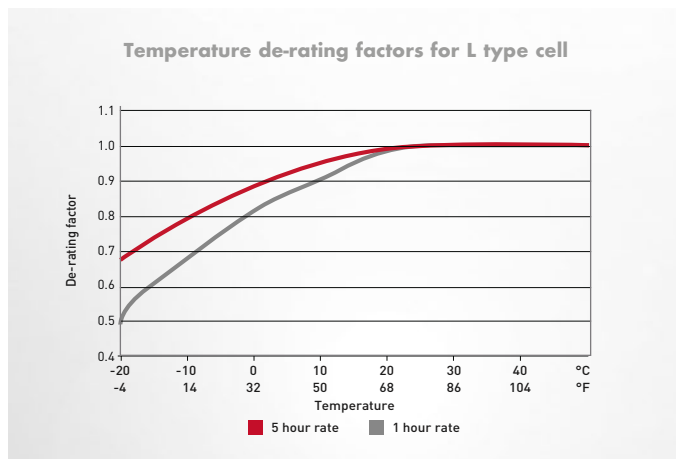
### A wide choice of capacity and performance

Uptimax cells are available in capacities from 8 – 1700 Ah in a choice of two ranges:

- UP1 L energy range, optimized for long discharge periods with a relatively low current
- UP1 M medium power range, specifically designed for mixed loads with varying current

| Uptimax UP1 L  |
|--|
| L type cell  |
| Range of 34 cells  |
| 15 – 1700 Ah   |
| For low rate discharges over long periods<br>between 1 and 100 hours |

| Uptimax UP1 M   |
|---|
| M type cell   |
| Range of 38 cells   |
| 8 – 1330 Ah   |
| For varied loads with low and high discharge rates,<br>between 30 minutes and 3 hours |





# Uptimax

## Designed with the highest standards



Uptimax batteries are designed in full compliance with the highest quality, safety and environmental standards



#### Electrical characteristics:

- Certified IEC 62259 - Secondary cells and batteries containing alkaline or other non-acid electrolytes - Nickel-cadmium prismatic secondary single cells with partial gas recombination. Uptimax New Generation exceeds gas recombination requirements.
- Certified IEC 60623 - Secondary cells and batteries containing alkaline or other non-acid electrolytes - Vented nickel-cadmium prismatic rechargeable single cells.

#### Safety:

- Complies with EN 50272-2/ IEC 62485-2 - Safety requirements for secondary batteries and battery installations - Part 2: Stationary batteries - The protective covers for terminals and connectors, the insulated cables are compliant with IP2 level protection against electrical shocks according to safety standard.

#### Quality:

- ISO 9001 und ISO 14001
- Saft world class continuous programme

#### Environment & Recycling:

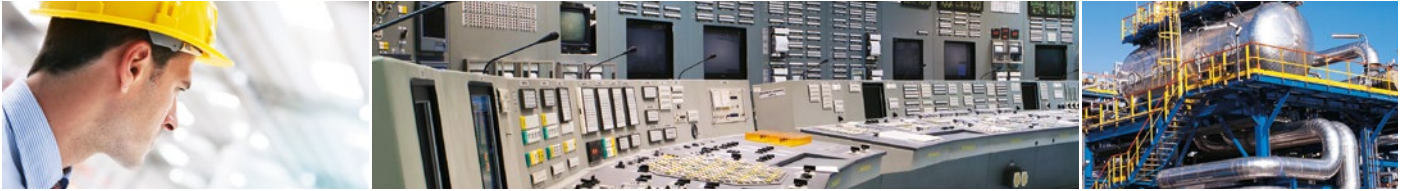
- Fully recyclable
- RoHS – Although batteries and accumulators are not within the scope of the RoHS directive, Saft has taken voluntary measures to make sure that the substances forbidden by RoHS are not present in the battery, with the exception of the electro-chemical core.
- REACH - The Saft Group has adopted internal procedures to ensure conformity with the European REACH (Registration, Evaluation, Authorisation and Restriction of Chemical Substances) Regulation.

Saft offers total end to end application support

Saft's stationary battery experts can call upon a comprehensive range of skills and expertise to help our global customer specify the ideal battery solution for their particular application. Our end to end support starts at the design stage, such as advice on battery sizing, and carries customers through installation and commissioning. Saft after-sales cover support, maintenance, diagnostic services as well as end of life recycling. Saft organizes battery training seminars for consultants, engineering and maintenance departments. To ensure that our customers receive the optimum service, wherever they are in the world, Saft is continuing to expand and enhance its network of approved service stations in the Middle East, Asia and North America.

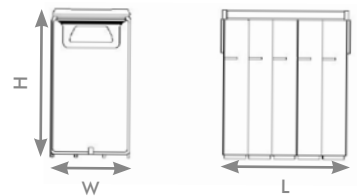
# Uptimax

## Physical properties L range



| Cell type | Capacity<br>C, Ah | Height |      | Width |     | Length per block |      |         |      |         |      |         |      |         |      |         |      | Approx. weight per cell |      | Internal resistance <sup>(1)</sup><br>mOhm | Cell connection bolt per pole |      |        |
|-----------|-------------------|--------|------|-------|-----|------------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------------------------|------|--|-------------------------------|------|--------|
|           |                   | mm     | in   | mm    | in  | 4 cells          |      | 5 cells |      | 6 cells |      | 7 cells |      | 8 cells |      | 9 cells |      | 10 cells                |      |  |                               |      |        |
|           |                   |        |      |       |     | mm               | in   | mm      | in   | mm      | in   | mm      | in   | mm      | in   | mm      | in   | mm                      | in   |  |                               | mm   | in     |
| UP1 L 15  | 15                | 270    | 10,6 | 123   | 4,8 | 123              | 4,8  | 153     | 6,0  | 182     | 7,2  | 212     | 8,3  | 241     | 9,5  | 271     | 10,6 | 300                     | 11,8 | 1,10                                       | 2,42                          | 12,1 | M6     |
| UP1 L 30  | 30                | 270    | 10,6 | 123   | 4,8 | 143              | 5,6  | 178     | 7,0  | 212     | 8,3  | 247     | 9,7  | 281     | 11,1 | 316     | 12,4 | 350                     | 13,8 | 1,80                                       | 3,96                          | 6,03 | M6     |
| UP1 L 47  | 47                | 270    | 10,6 | 123   | 4,8 | 191              | 7,5  | 238     | 9,4  | 284     | 11,2 | 331     | 13,0 | 377     | 14,8 | 424     | 16,7 | 470                     | 18,5 | 2,50                                       | 5,51                          | 3,85 | M6     |
| UP1 L 62  | 62                | 270    | 10,6 | 123   | 4,8 | 239              | 9,4  | 298     | 11,7 | 356     | 14,0 | 415     | 16,3 | 473     | 18,6 | 532     | 20,9 | 590                     | 23,2 | 3,20                                       | 7,05                          | 2,92 | M6     |
| UP1 L 75  | 75                | 270    | 10,6 | 123   | 4,8 | 329              | 13,0 | 410     | 16,1 | 491     | 19,3 | 572     | 22,5 | -       | -    | -       | -    | -                       | -    | 4,30                                       | 9,47                          | 2,41 | 2 x M6 |
| UP1 L 95  | 95                | 421    | 16,6 | 195   | 7,7 | 157              | 6,2  | 193     | 7,6  | 229     | 9,0  | -       | -    | -       | -    | -       | -    | -                       | -    | 4,90                                       | 10,8                          | 2,55 | M8     |
| UP1 L 110 | 110               | 270    | 10,6 | 123   | 4,8 | 425              | 16,7 | 530     | 20,9 | 635     | 25,0 | 740     | 29,1 | -       | -    | -       | -    | -                       | -    | 5,70                                       | 12,5                          | 1,65 | 2 x M6 |
| UP1 L 140 | 140               | 421    | 16,6 | 195   | 7,7 | 205              | 8,1  | 253     | 10,0 | 301     | 11,9 | -       | -    | -       | -    | -       | -    | -                       | -    | 6,70                                       | 14,7                          | 1,73 | M10    |
| UP1 L 185 | 185               | 421    | 16,6 | 195   | 7,7 | 253              | 10,0 | 313     | 12,3 | 373     | 14,7 | -       | -    | -       | -    | -       | -    | -                       | -    | 8,40                                       | 18,5                          | 1,31 | M10    |
| UP1 L 235 | 235               | 421    | 16,6 | 195   | 7,7 | 305              | 12,0 | 378     | 14,9 | 451     | 17,8 | -       | -    | -       | -    | -       | -    | -                       | -    | 9,90                                       | 21,8                          | 1,03 | M10    |
| UP1 L 280 | 280               | 421    | 16,6 | 195   | 7,7 | 353              | 13,9 | 438     | 17,2 | 523     | 20,6 | -       | -    | -       | -    | -       | -    | -                       | -    | 11,5                                       | 25,3                          | 0,86 | M10    |

| Cell type  | Capacity<br>C, Ah | Height |      | Width |     | Length per block |      |         |      |         |      | Approx. weight per cell |       | Internal resistance <sup>(1)</sup><br>mOhm | Cell connection bolt per pole |
|------------|-------------------|--------|------|-------|-----|------------------|------|---------|------|---------|------|-------------------------|-------|--|-------------------------------|
|            |                   | mm     | in   | mm    | in  | 1 cells          |      | 2 cells |      | 3 cells |      | kg                      | lb    |  |                               |
|            |                   |        |      |       |     | mm               | in   | mm      | in   | mm      | in   |                         |       |  |                               |
| UP1 L 325  | 325               | 421    | 16,6 | 195   | 7,7 | -                | -    | 229     | 9,0  | 337     | 13,3 | 15,1                    | 33,2  | 0,74                                       | 2 x M10                       |
| UP1 L 375  | 375               | 421    | 16,6 | 195   | 7,7 | -                | -    | 253     | 10,0 | 373     | 14,7 | 16,8                    | 37,0  | 0,65                                       | 2 x M10                       |
| UP1 L 420  | 420               | 421    | 16,6 | 195   | 7,7 | 146              | 5,7  | 279     | 11,0 | 412     | 16,2 | 18,3                    | 40,3  | 0,58                                       | 2 x M10                       |
| UP1 L 470  | 470               | 421    | 16,6 | 195   | 7,7 | 159              | 6,3  | 305     | 12,0 | 451     | 17,8 | 19,8                    | 43,6  | 0,51                                       | 2 x M10                       |
| UP1 L 515  | 515               | 405    | 15,9 | 195   | 7,7 | 171              | 6,7  | -       | -    | -       | -    | 21,4                    | 47,1  | 0,47                                       | 2 x M10                       |
| UP1 L 560  | 560               | 405    | 15,9 | 195   | 7,7 | 183              | 7,2  | -       | -    | -       | -    | 23,0                    | 50,7  | 0,43                                       | 2 x M10                       |
| UP1 L 610  | 610               | 405    | 15,9 | 195   | 7,7 | 207              | 8,1  | -       | -    | -       | -    | 26,5                    | 58,4  | 0,40                                       | 3 x M10                       |
| UP1 L 650  | 650               | 405    | 15,9 | 195   | 7,7 | 219              | 8,6  | -       | -    | -       | -    | 28,2                    | 62,1  | 0,37                                       | 3 x M10                       |
| UP1 L 700  | 700               | 405    | 15,9 | 195   | 7,7 | 232              | 9,1  | -       | -    | -       | -    | 29,7                    | 65,4  | 0,35                                       | 3 x M10                       |
| UP1 L 750  | 750               | 405    | 15,9 | 195   | 7,7 | 243              | 9,6  | -       | -    | -       | -    | 31,4                    | 69,2  | 0,32                                       | 3 x M10                       |
| UP1 L 800  | 800               | 405    | 15,9 | 195   | 7,7 | 256              | 10,1 | -       | -    | -       | -    | 32,9                    | 72,5  | 0,3  | 3 x M10                       |
| UP1 L 840  | 840               | 405    | 15,9 | 195   | 7,7 | 268              | 10,6 | -       | -    | -       | -    | 34,5                    | 76,0  | 0,29                                       | 3 x M10                       |
| UP1 L 890  | 890               | 405    | 15,9 | 195   | 7,7 | 292              | 11,5 | -       | -    | -       | -    | 38,1                    | 83,9  | 0,27                                       | 4 x M10                       |
| UP1 L 940  | 940               | 405    | 15,9 | 195   | 7,7 | 305              | 12,0 | -       | -    | -       | -    | 39,6                    | 87,3  | 0,26                                       | 4 x M10                       |
| UP1 L 980  | 980               | 405    | 15,9 | 195   | 7,7 | 315              | 12,4 | -       | -    | -       | -    | 41,2                    | 90,8  | 0,25                                       | 4 x M10                       |
| UP1 L 1030 | 1030              | 405    | 15,9 | 195   | 7,7 | 328              | 12,9 | -       | -    | -       | -    | 42,9                    | 94,5  | 0,23                                       | 4 x M10                       |
| UP1 L 1120 | 1120              | 405    | 15,9 | 195   | 7,7 | 353              | 13,9 | -       | -    | -       | -    | 46,0                    | 101,4 | 0,22                                       | 4 x M10                       |
| UP1 L 1220 | 1220              | 405    | 15,9 | 195   | 7,7 | 388              | 15,3 | -       | -    | -       | -    | 51,3                    | 113,0 | 0,20                                       | 5 x M10                       |
| UP1 L 1300 | 1300              | 405    | 15,9 | 195   | 7,7 | 413              | 16,3 | -       | -    | -       | -    | 54,4                    | 119,9 | 0,19                                       | 5 x M10                       |
| UP1 L 1400 | 1400              | 405    | 15,9 | 195   | 7,7 | 438              | 17,2 | -       | -    | -       | -    | 57,5                    | 126,7 | 0,17                                       | 5 x M10                       |
| UP1 L 1500 | 1500              | 405    | 15,9 | 195   | 7,7 | 473              | 18,6 | -       | -    | -       | -    | 62,8                    | 138,4 | 0,16                                       | 6 x M10                       |
| UP1 L 1600 | 1600              | 405    | 15,9 | 195   | 7,7 | 498              | 19,6 | -       | -    | -       | -    | 65,9                    | 145,2 | 0,15                                       | 6 x M10                       |
| UP1 L 1700 | 1700              | 405    | 15,9 | 195   | 7,7 | 523              | 20,6 | -       | -    | -       | -    | 69,0                    | 152,1 | 0,14                                       | 6 x M10                       |



The block length and weight are determined by the number of cells in the block. All tabulated dimensions are maximum values.

(1) Rigid connector included

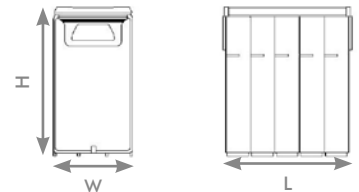
# Uptimax

## Physical properties M range



| Cell type | Capacity<br>C, Ah | Height |      | Width |     | Length per block |      |         |      |         |      |         |      |         |      |         |      | Approx. weight per cell |      | Internal resistance <sup>(1)</sup> | Cell connection bolt per pole |          |        |
|-----------|-------------------|--------|------|-------|-----|------------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------------------------|------|------------------------------------|-------------------------------|----------|--------|
|           |                   |        |      |       |     | 4 cells          |      | 5 cells |      | 6 cells |      | 7 cells |      | 8 cells |      | 9 cells |      |                         |      |                                    |                               | 10 cells |        |
|           |                   |        |      |       |     | mm               | in   | mm      | in   | mm      | in   | mm      | in   | mm      | in   | mm      | in   |                         |      |                                    |                               | mm       | in     |
| UP1 M 8   | 8                 | 270    | 10,6 | 123   | 4,8 | 123              | 4,8  | 153     | 6,0  | 182     | 7,2  | 212     | 8,3  | 241     | 9,5  | 271     | 10,6 | 300                     | 11,8 | 1,10                               | 2,42                          | 12,5     | M6     |
| UP1 M 16  | 16                | 270    | 10,6 | 123   | 4,8 | 123              | 4,8  | 153     | 6,0  | 182     | 7,2  | 212     | 8,3  | 241     | 9,5  | 271     | 10,6 | 300                     | 11,8 | 1,50                               | 3,30                          | 6,25     | M6     |
| UP1 M 24  | 24                | 270    | 10,6 | 123   | 4,8 | 143              | 5,6  | 178     | 7,0  | 212     | 8,3  | 247     | 9,7  | 281     | 11,1 | 316     | 12,4 | 350                     | 13,8 | 1,80                               | 3,96                          | 4,17     | M6     |
| UP1 M 32  | 32                | 270    | 10,6 | 123   | 4,8 | 191              | 7,5  | 238     | 9,4  | 284     | 11,2 | 331     | 13,0 | 377     | 14,8 | 424     | 16,7 | 470                     | 18,5 | 2,50                               | 5,51                          | 3,13     | M6     |
| UP1 M 40  | 40                | 270    | 10,6 | 123   | 4,8 | 239              | 9,4  | 298     | 11,7 | 356     | 14,0 | 415     | 16,3 | 473     | 18,6 | 532     | 20,9 | 590                     | 23,2 | 3,20                               | 7,05                          | 2,50     | M6     |
| UP1 M 48  | 48                | 270    | 10,6 | 123   | 4,8 | 239              | 9,4  | 298     | 11,7 | 356     | 14,0 | 415     | 16,3 | 473     | 18,6 | 532     | 20,9 | 590                     | 23,2 | 3,30                               | 7,27                          | 2,08     | M6     |
| UP1 M 65  | 65                | 270    | 10,6 | 123   | 4,8 | 377              | 14,8 | 470     | 18,5 | 563     | 22,2 | 656     | 25,8 | -       | -    | -       | -    | -                       | -    | 5,00                               | 11,0                          | 1,54     | 2 x M6 |
| UP1 M 75  | 75                | 421    | 16,6 | 195   | 7,7 | 157              | 6,2  | 193     | 7,6  | 229     | 9,0  | -       | -    | -       | -    | -       | -    | -                       | -    | 4,90                               | 10,8                          | 1,52     | M8     |
| UP1 M 100 | 100               | 421    | 16,6 | 195   | 7,7 | 187              | 7,4  | 231     | 9,1  | 274     | 10,8 | -       | -    | -       | -    | -       | -    | -                       | -    | 6,30                               | 13,8                          | 1,14     | M8     |
| UP1 M 125 | 125               | 421    | 16,6 | 195   | 7,7 | 229              | 9,0  | 283     | 11,1 | 337     | 13,3 | -       | -    | -       | -    | -       | -    | -                       | -    | 7,60                               | 16,7                          | 0,91     | M10    |
| UP1 M 150 | 150               | 421    | 16,6 | 195   | 7,7 | 253              | 10,0 | 313     | 12,3 | 373     | 14,7 | -       | -    | -       | -    | -       | -    | -                       | -    | 8,40                               | 18,5                          | 0,76     | M10    |
| UP1 M 170 | 170               | 421    | 16,6 | 195   | 7,7 | 305              | 12,0 | 378     | 14,9 | 451     | 17,8 | -       | -    | -       | -    | -       | -    | -                       | -    | 9,90                               | 21,8                          | 0,67     | M10    |
| UP1 M 195 | 195               | 421    | 16,6 | 195   | 7,7 | 353              | 13,9 | 438     | 17,2 | 523     | 20,6 | -       | -    | -       | -    | -       | -    | -                       | -    | 11,5                               | 25,3                          | 0,58     | M10    |
| UP1 M 220 | 220               | 421    | 16,6 | 195   | 7,7 | 353              | 13,9 | 438     | 17,2 | 523     | 20,6 | -       | -    | -       | -    | -       | -    | -                       | -    | 12,0                               | 26,4                          | 0,52     | M10    |

| Cell type  | Capacity<br>C, Ah | Height |      | Width |     | Length per block |      |         |      |         |      | Approx. weight per cell |       | Internal resistance <sup>(1)</sup> | Cell connection bolt per pole |
|------------|-------------------|--------|------|-------|-----|------------------|------|---------|------|---------|------|-------------------------|-------|------------------------------------|-------------------------------|
|            |                   |        |      |       |     | 1 cells          |      | 2 cells |      | 3 cells |      |                         |       |                                    |                               |
|            |                   |        |      |       |     | mm               | in   | mm      | in   | mm      | in   |                         |       |                                    |                               |
| UP1 M 220  | 220               | 421    | 16,6 | 195   | 7,7 | 98               | 3,9  | -       | -    | -       | -    | 12,0                    | 26,4  | 0,52                               | M10                           |
| UP1 M 245  | 245               | 421    | 16,6 | 195   | 7,7 | -                | -    | 229     | 9,0  | 337     | 13,3 | 15,2                    | 33,5  | 0,47                               | 2 x M10                       |
| UP1 M 270  | 270               | 421    | 16,6 | 195   | 7,7 | 127              | 5,0  | 241     | 9,5  | 355     | 14,0 | 16,0                    | 35,2  | 0,42                               | 2 x M10                       |
| UP1 M 295  | 295               | 421    | 16,6 | 195   | 7,7 | 133              | 5,2  | 253     | 10,0 | 373     | 14,7 | 16,8                    | 37,0  | 0,39                               | 2 x M10                       |
| UP1 M 320  | 320               | 421    | 16,6 | 195   | 7,7 | -                | -    | 279     | 11,0 | 412     | 16,2 | 18,3                    | 40,3  | 0,36                               | 2 x M10                       |
| UP1 M 345  | 345               | 421    | 16,6 | 195   | 7,7 | 159              | 6,3  | 305     | 12,0 | 451     | 17,8 | 19,8                    | 43,6  | 0,33                               | 2 x M10                       |
| UP1 M 370  | 370               | 421    | 16,6 | 195   | 7,7 | -                | -    | 329     | 13,0 | 487     | 19,2 | 21,4                    | 47,1  | 0,31                               | 2 x M10                       |
| UP1 M 395  | 395               | 421    | 16,6 | 195   | 7,7 | -                | -    | 353     | 13,9 | 523     | 20,6 | 23,0                    | 50,7  | 0,29                               | 2 x M10                       |
| UP1 M 420  | 420               | 421    | 16,6 | 195   | 7,7 | -                | -    | 353     | 13,9 | 523     | 20,6 | 23,5                    | 51,8  | 0,27                               | 2 x M10                       |
| UP1 M 445  | 445               | 421    | 16,6 | 195   | 7,7 | -                | -    | 353     | 13,9 | 523     | 20,6 | 24,0                    | 52,9  | 0,26                               | 2 x M10                       |
| UP1 M 490  | 490               | 405    | 15,9 | 195   | 7,7 | 219              | 8,6  | -       | -    | -       | -    | 28,2                    | 62,1  | 0,23                               | 3 x M10                       |
| UP1 M 540  | 540               | 405    | 15,9 | 195   | 7,7 | 243              | 9,6  | -       | -    | -       | -    | 31,4                    | 69,2  | 0,21                               | 3 x M10                       |
| UP1 M 590  | 590               | 405    | 15,9 | 195   | 7,7 | 268              | 10,6 | -       | -    | -       | -    | 34,5                    | 76,0  | 0,19                               | 3 x M10                       |
| UP1 M 640  | 640               | 405    | 15,9 | 195   | 7,7 | 268              | 10,6 | -       | -    | -       | -    | 35,5                    | 78,2  | 0,18                               | 3 x M10                       |
| UP1 M 690  | 690               | 405    | 15,9 | 195   | 7,7 | 305              | 12,0 | -       | -    | -       | -    | 39,6                    | 87,3  | 0,17                               | 4 x M10                       |
| UP1 M 740  | 740               | 405    | 15,9 | 195   | 7,7 | 328              | 12,9 | -       | -    | -       | -    | 42,9                    | 94,5  | 0,15                               | 4 x M10                       |
| UP1 M 785  | 785               | 405    | 15,9 | 195   | 7,7 | 353              | 13,9 | -       | -    | -       | -    | 46,0                    | 101,4 | 0,15                               | 4 x M10                       |
| UP1 M 835  | 835               | 405    | 15,9 | 195   | 7,7 | 341              | 13,4 | -       | -    | -       | -    | 45,9                    | 101,1 | 0,14                               | 4 x M10                       |
| UP1 M 885  | 885               | 405    | 15,9 | 195   | 7,7 | 353              | 13,9 | -       | -    | -       | -    | 48,0                    | 105,8 | 0,13                               | 4 x M10                       |
| UP1 M 935  | 935               | 405    | 15,9 | 195   | 7,7 | 413              | 16,3 | -       | -    | -       | -    | 54,4                    | 119,9 | 0,12                               | 5 x M10                       |
| UP1 M 985  | 985               | 405    | 15,9 | 195   | 7,7 | 438              | 17,2 | -       | -    | -       | -    | 57,5                    | 126,7 | 0,12                               | 5 x M10                       |
| UP1 M 1030 | 1030              | 405    | 15,9 | 195   | 7,7 | 413              | 16,3 | -       | -    | -       | -    | 56,4                    | 124,3 | 0,11                               | 5 x M10                       |
| UP1 M 1130 | 1130              | 405    | 15,9 | 195   | 7,7 | 498              | 19,6 | -       | -    | -       | -    | 65,9                    | 145,2 | 0,10                               | 6 x M10                       |
| UP1 M 1230 | 1230              | 405    | 15,9 | 195   | 7,7 | 492              | 19,4 | -       | -    | -       | -    | 67,6                    | 149,0 | 0,09                               | 6 x M10                       |
| UP1 M 1330 | 1330              | 405    | 15,9 | 195   | 7,7 | 523              | 20,6 | -       | -    | -       | -    | 72,0                    | 158,7 | 0,09                               | 6 x M10                       |



The block length and weight are determined by the number of cells in the block.  
All tabulated dimensions are maximum values.

(1) Rigid connector included

# Uptimax

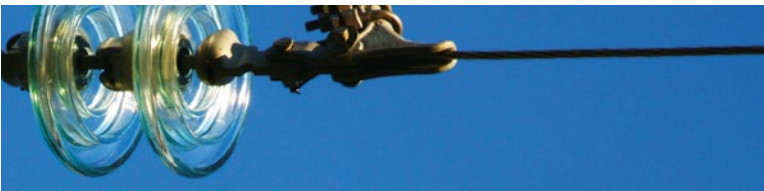
## Electrical performance L range



**Final voltage: 1.00 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 L 15   | 15                | 1,56  | 1,93 | 3,00 | 4,80 | 6,43 | 7,59 | 9,30 | 10,5    | 12,1 | 13,6 | 14,4 | 15,4 | 17,1 | 19,5 | 21,3    | 26,2 | 29,3 |
| UP1 L 30   | 30                | 3,12  | 3,86 | 6,00 | 9,60 | 12,9 | 15,2 | 18,6 | 21,0    | 24,3 | 27,2 | 28,9 | 30,9 | 34,1 | 39,1 | 42,6    | 52,4 | 58,6 |
| UP1 L 47   | 47                | 4,89  | 6,05 | 9,40 | 15,0 | 20,1 | 23,8 | 29,1 | 32,9    | 38,0 | 42,6 | 45,2 | 48,3 | 53,5 | 61,2 | 66,7    | 82,0 | 91,8 |
| UP1 L 62   | 62                | 6,45  | 7,98 | 12,4 | 19,8 | 26,6 | 31,4 | 38,4 | 43,4    | 50,1 | 56,2 | 59,6 | 63,8 | 70,5 | 80,8 | 88,0    | 108  | 121  |
| UP1 L 75   | 75                | 7,80  | 9,66 | 15,0 | 24,0 | 32,1 | 37,9 | 46,5 | 52,5    | 60,6 | 68,0 | 72,1 | 77,1 | 85,3 | 97,7 | 106     | 131  | 146  |
| UP1 L 95   | 95                | 9,87  | 12,2 | 19,0 | 30,6 | 39,8 | 45,6 | 53,6 | 58,6    | 65,2 | 71,0 | 75,2 | 79,2 | 87,4 | 87,4 | 95,7    | 113  | 124  |
| UP1 L 110  | 110               | 11,4  | 14,2 | 22,0 | 35,2 | 47,1 | 55,6 | 68,2 | 77,0    | 88,9 | 99,7 | 106  | 113  | 125  | 143  | 156     | 192  | 215  |
| UP1 L 140  | 140               | 14,6  | 18,1 | 28,0 | 45,1 | 58,7 | 67,2 | 79,0 | 86,4    | 96,0 | 105  | 111  | 117  | 129  | 129  | 141     | 166  | 182  |
| UP1 L 185  | 185               | 19,2  | 23,9 | 37,0 | 59,6 | 77,5 | 88,8 | 104  | 114     | 127  | 138  | 147  | 154  | 170  | 170  | 186     | 220  | 241  |
| UP1 L 235  | 235               | 24,4  | 30,3 | 47,0 | 75,7 | 98,5 | 113  | 133  | 145     | 161  | 176  | 186  | 196  | 216  | 216  | 237     | 279  | 306  |
| UP1 L 280  | 280               | 29,1  | 36,1 | 56,0 | 90,2 | 117  | 134  | 158  | 173     | 192  | 209  | 222  | 234  | 257  | 258  | 282     | 333  | 365  |
| UP1 L 325  | 325               | 33,8  | 41,9 | 65,0 | 105  | 136  | 156  | 183  | 201     | 223  | 243  | 257  | 271  | 299  | 299  | 327     | 386  | 423  |
| UP1 L 375  | 375               | 39,0  | 48,3 | 75,0 | 121  | 157  | 180  | 212  | 232     | 257  | 280  | 297  | 313  | 345  | 345  | 378     | 446  | 489  |
| UP1 L 420  | 420               | 43,7  | 54,2 | 84,0 | 135  | 176  | 202  | 237  | 259     | 288  | 314  | 333  | 350  | 386  | 386  | 423     | 499  | 547  |
| UP1 L 470  | 470               | 48,8  | 60,6 | 94,0 | 151  | 197  | 226  | 265  | 290     | 322  | 351  | 372  | 392  | 432  | 432  | 473     | 559  | 612  |
| UP1 L 515  | 515               | 53,5  | 66,4 | 103  | 166  | 216  | 247  | 290  | 318     | 353  | 385  | 408  | 430  | 474  | 474  | 519     | 612  | 671  |
| UP1 L 560  | 560               | 58,2  | 72,2 | 112  | 180  | 235  | 269  | 316  | 346     | 384  | 418  | 444  | 467  | 515  | 515  | 564     | 666  | 730  |
| UP1 L 610  | 610               | 63,4  | 78,6 | 122  | 196  | 256  | 293  | 344  | 377     | 418  | 456  | 483  | 509  | 561  | 561  | 614     | 725  | 795  |
| UP1 L 650  | 650               | 67,6  | 83,8 | 130  | 209  | 272  | 312  | 367  | 401     | 446  | 486  | 515  | 542  | 598  | 598  | 655     | 773  | 847  |
| UP1 L 700  | 700               | 72,8  | 90,3 | 140  | 225  | 293  | 336  | 395  | 432     | 480  | 523  | 554  | 584  | 644  | 644  | 705     | 832  | 912  |
| UP1 L 750  | 750               | 77,9  | 96,7 | 150  | 242  | 314  | 360  | 423  | 463     | 515  | 560  | 594  | 626  | 690  | 690  | 755     | 891  | 977  |
| UP1 L 800  | 800               | 83,1  | 103  | 160  | 258  | 335  | 384  | 451  | 494     | 549  | 598  | 634  | 667  | 736  | 736  | 806     | 951  | 1042 |
| UP1 L 840  | 840               | 87,3  | 108  | 168  | 270  | 352  | 403  | 474  | 519     | 576  | 627  | 665  | 701  | 772  | 773  | 846     | 998  | 1094 |
| UP1 L 890  | 890               | 92,5  | 115  | 178  | 287  | 373  | 427  | 502  | 549     | 611  | 665  | 705  | 742  | 818  | 819  | 896     | 1058 | 1159 |
| UP1 L 940  | 940               | 97,7  | 121  | 188  | 303  | 394  | 451  | 530  | 580     | 645  | 702  | 744  | 784  | 864  | 865  | 947     | 1117 | 1225 |
| UP1 L 980  | 980               | 102   | 126  | 196  | 316  | 411  | 470  | 553  | 605     | 672  | 732  | 776  | 817  | 901  | 902  | 987     | 1165 | 1277 |
| UP1 L 1030 | 1030              | 107   | 133  | 206  | 332  | 432  | 494  | 581  | 636     | 707  | 769  | 816  | 859  | 947  | 948  | 1037    | 1224 | 1342 |
| UP1 L 1120 | 1120              | 116   | 144  | 224  | 361  | 469  | 538  | 632  | 691     | 768  | 837  | 887  | 934  | 1030 | 1030 | 1128    | 1331 | 1459 |
| UP1 L 1220 | 1220              | 127   | 157  | 244  | 393  | 511  | 586  | 688  | 753     | 837  | 911  | 966  | 1017 | 1122 | 1122 | 1229    | 1450 | 1589 |
| UP1 L 1300 | 1300              | 135   | 168  | 260  | 419  | 545  | 624  | 733  | 803     | 892  | 971  | 1030 | 1084 | 1195 | 1196 | 1309    | 1545 | 1694 |
| UP1 L 1400 | 1400              | 146   | 181  | 280  | 451  | 587  | 672  | 790  | 864     | 960  | 1046 | 1109 | 1168 | 1287 | 1288 | 1410    | 1664 | 1824 |
| UP1 L 1500 | 1500              | 156   | 193  | 300  | 483  | 629  | 720  | 846  | 926     | 1029 | 1121 | 1188 | 1251 | 1379 | 1380 | 1511    | 1783 | 1954 |
| UP1 L 1600 | 1600              | 166   | 206  | 320  | 515  | 670  | 768  | 902  | 988     | 1098 | 1195 | 1267 | 1334 | 1471 | 1472 | 1612    | 1902 | 2084 |
| UP1 L 1700 | 1700              | 177   | 219  | 340  | 547  | 712  | 816  | 959  | 1049    | 1166 | 1270 | 1346 | 1418 | 1563 | 1564 | 1712    | 2021 | 2215 |



**Final voltage: 1.05 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 L 15   | 15                | 1,56  | 1,91 | 2,91 | 4,29 | 5,53 | 6,39 | 7,81 | 8,83    | 10,2 | 11,4 | 12,0 | 13,0 | 14,8 | 16,4 | 17,9    | 22,1 | 24,6 |
| UP1 L 30   | 30                | 3,12  | 3,83 | 5,82 | 8,58 | 11,1 | 12,8 | 15,6 | 17,7    | 20,4 | 22,8 | 24,1 | 26,1 | 29,7 | 32,7 | 35,8    | 44,2 | 49,2 |
| UP1 L 47   | 47                | 4,89  | 5,99 | 9,12 | 13,4 | 17,3 | 20,0 | 24,5 | 27,7    | 32,0 | 35,6 | 37,7 | 40,8 | 46,5 | 51,3 | 56,2    | 69,2 | 77,1 |
| UP1 L 62   | 62                | 6,45  | 7,91 | 12,0 | 17,7 | 22,9 | 26,4 | 32,3 | 36,5    | 42,2 | 47,0 | 49,7 | 53,9 | 61,3 | 67,6 | 74,1    | 91,3 | 102  |
| UP1 L 75   | 75                | 7,80  | 9,56 | 14,6 | 21,5 | 27,7 | 32,0 | 39,1 | 44,1    | 51,0 | 56,9 | 60,1 | 65,1 | 74,2 | 81,8 | 89,6    | 110  | 123  |
| UP1 L 95   | 95                | 9,77  | 12,0 | 18,8 | 27,7 | 34,7 | 39,3 | 44,8 | 48,5    | 53,4 | 58,1 | 59,9 | 63,2 | 69,3 | 73,4 | 79,6    | 94,5 | 103  |
| UP1 L 110  | 110               | 11,4  | 14,0 | 21,3 | 31,5 | 40,6 | 46,9 | 57,3 | 64,7    | 74,8 | 83,4 | 88,2 | 95,5 | 109  | 120  | 131     | 162  | 180  |
| UP1 L 140  | 140               | 14,4  | 17,8 | 27,7 | 40,8 | 51,1 | 57,9 | 66,0 | 71,5    | 78,6 | 85,6 | 88,2 | 93,1 | 102  | 108  | 117     | 139  | 152  |
| UP1 L 185  | 185               | 19,0  | 23,5 | 36,6 | 54,0 | 67,5 | 76,5 | 87,2 | 94,5    | 104  | 113  | 117  | 123  | 135  | 143  | 155     | 184  | 201  |
| UP1 L 235  | 235               | 24,2  | 29,8 | 46,4 | 68,5 | 85,8 | 97   | 111  | 120     | 132  | 144  | 148  | 156  | 172  | 181  | 197     | 234  | 255  |
| UP1 L 280  | 280               | 28,8  | 35,5 | 55,3 | 81,7 | 102  | 116  | 132  | 143     | 157  | 171  | 176  | 186  | 204  | 216  | 235     | 279  | 304  |
| UP1 L 325  | 325               | 33,4  | 41,2 | 64,2 | 94,8 | 119  | 134  | 153  | 166     | 183  | 199  | 205  | 216  | 237  | 251  | 272     | 323  | 353  |
| UP1 L 375  | 375               | 38,6  | 47,5 | 74,1 | 109  | 137  | 155  | 177  | 192     | 211  | 229  | 236  | 249  | 274  | 290  | 314     | 373  | 407  |
| UP1 L 420  | 420               | 43,2  | 53,3 | 83,0 | 123  | 153  | 174  | 198  | 215     | 236  | 257  | 265  | 279  | 307  | 324  | 352     | 418  | 456  |
| UP1 L 470  | 470               | 48,3  | 59,6 | 92,9 | 137  | 172  | 194  | 222  | 240     | 264  | 287  | 296  | 313  | 343  | 363  | 394     | 468  | 511  |
| UP1 L 515  | 515               | 53,0  | 65,3 | 102  | 150  | 188  | 213  | 243  | 263     | 289  | 315  | 325  | 343  | 376  | 398  | 431     | 512  | 560  |
| UP1 L 560  | 560               | 57,6  | 71,0 | 111  | 163  | 204  | 231  | 264  | 286     | 314  | 342  | 353  | 373  | 409  | 432  | 469     | 557  | 608  |
| UP1 L 610  | 610               | 62,7  | 77,3 | 121  | 178  | 223  | 252  | 288  | 312     | 343  | 373  | 384  | 406  | 445  | 471  | 511     | 607  | 663  |
| UP1 L 650  | 650               | 66,9  | 82,4 | 128  | 190  | 237  | 269  | 306  | 332     | 365  | 397  | 410  | 432  | 474  | 502  | 545     | 647  | 706  |
| UP1 L 700  | 700               | 72,0  | 88,8 | 138  | 204  | 256  | 289  | 330  | 358     | 393  | 428  | 441  | 466  | 511  | 541  | 586     | 696  | 761  |
| UP1 L 750  | 750               | 77,1  | 95,1 | 148  | 219  | 274  | 310  | 354  | 383     | 421  | 459  | 473  | 499  | 547  | 579  | 628     | 746  | 815  |
| UP1 L 800  | 800               | 82,3  | 101  | 158  | 233  | 292  | 331  | 377  | 409     | 449  | 489  | 504  | 532  | 584  | 618  | 670     | 796  | 869  |
| UP1 L 840  | 840               | 86,4  | 107  | 166  | 245  | 307  | 347  | 396  | 429     | 472  | 514  | 529  | 559  | 613  | 649  | 704     | 836  | 913  |
| UP1 L 890  | 890               | 91,5  | 113  | 176  | 260  | 325  | 368  | 420  | 455     | 500  | 544  | 561  | 592  | 650  | 687  | 746     | 885  | 967  |
| UP1 L 940  | 940               | 96,7  | 119  | 186  | 274  | 343  | 389  | 443  | 480     | 528  | 575  | 592  | 625  | 686  | 726  | 787     | 935  | 1021 |
| UP1 L 980  | 980               | 101   | 124  | 194  | 286  | 358  | 405  | 462  | 501     | 550  | 599  | 618  | 652  | 715  | 757  | 821     | 975  | 1065 |
| UP1 L 1030 | 1030              | 106   | 131  | 204  | 300  | 376  | 426  | 486  | 526     | 578  | 630  | 649  | 685  | 752  | 795  | 863     | 1025 | 1119 |
| UP1 L 1120 | 1120              | 115   | 142  | 221  | 327  | 409  | 463  | 528  | 572     | 629  | 685  | 706  | 745  | 818  | 865  | 938     | 1114 | 1217 |
| UP1 L 1220 | 1220              | 125   | 155  | 241  | 356  | 445  | 504  | 575  | 623     | 685  | 746  | 769  | 812  | 891  | 942  | 1022    | 1214 | 1325 |
| UP1 L 1300 | 1300              | 134   | 165  | 257  | 379  | 475  | 537  | 613  | 664     | 730  | 795  | 819  | 865  | 949  | 1004 | 1089    | 1293 | 1412 |
| UP1 L 1400 | 1400              | 144   | 178  | 277  | 408  | 511  | 579  | 660  | 715     | 786  | 856  | 882  | 931  | 1022 | 1081 | 1173    | 1393 | 1521 |
| UP1 L 1500 | 1500              | 154   | 190  | 296  | 438  | 548  | 620  | 707  | 766     | 842  | 917  | 945  | 998  | 1095 | 1158 | 1257    | 1492 | 1630 |
| UP1 L 1600 | 1600              | 165   | 203  | 316  | 467  | 584  | 661  | 754  | 817     | 899  | 978  | 1008 | 1064 | 1168 | 1236 | 1340    | 1592 | 1738 |
| UP1 L 1700 | 1700              | 175   | 216  | 336  | 496  | 621  | 703  | 802  | 868     | 955  | 1039 | 1071 | 1131 | 1241 | 1313 | 1424    | 1691 | 1847 |

# Uptimax

## Electrical performance L range



**Final voltage: 1.10 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 L 15   | 15                | 1,50  | 1,83 | 2,68 | 3,69 | 4,66 | 5,37 | 6,38 | 6,96    | 7,89 | 8,72 | 9,26 | 10,1 | 11,5 | 12,7 | 14,1    | 17,4 | 19,2 |
| UP1 L 30   | 30                | 3,00  | 3,67 | 5,37 | 7,39 | 9,32 | 10,7 | 12,8 | 13,9    | 15,8 | 17,4 | 18,5 | 20,1 | 23,0 | 25,5 | 28,2    | 34,8 | 38,5 |
| UP1 L 47   | 47                | 4,70  | 5,75 | 8,41 | 11,6 | 14,6 | 16,8 | 20,0 | 21,8    | 24,7 | 27,3 | 29,0 | 31,5 | 36,0 | 39,9 | 44,1    | 54,5 | 60,3 |
| UP1 L 62   | 62                | 6,20  | 7,58 | 11,1 | 15,3 | 19,3 | 22,2 | 26,4 | 28,8    | 32,6 | 36,0 | 38,3 | 41,6 | 47,5 | 52,6 | 58,2    | 71,9 | 79,5 |
| UP1 L 75   | 75                | 7,50  | 9,17 | 13,4 | 18,5 | 23,3 | 26,9 | 31,9 | 34,8    | 39,4 | 43,6 | 46,3 | 50,3 | 57,5 | 63,7 | 70,4    | 87,0 | 96,2 |
| UP1 L 95   | 95                | 9,50  | 11,7 | 17,4 | 24,0 | 29,0 | 31,9 | 35,9 | 38,5    | 42,7 | 46,1 | 48,2 | 50,7 | 54,6 | 60,1 | 65,7    | 77,9 | 84,1 |
| UP1 L 110  | 110               | 11,0  | 13,4 | 19,7 | 27,1 | 34,2 | 39,4 | 46,8 | 51,1    | 57,9 | 64,0 | 67,9 | 73,7 | 84,3 | 93,4 | 103     | 128  | 141  |
| UP1 L 140  | 140               | 14,0  | 17,2 | 25,7 | 35,3 | 42,7 | 46,9 | 52,9 | 56,7    | 63,0 | 68,0 | 71,1 | 74,7 | 80,4 | 88,6 | 96,8    | 115  | 124  |
| UP1 L 185  | 185               | 18,5  | 22,8 | 33,9 | 46,7 | 56,4 | 62,0 | 69,8 | 75,0    | 83,2 | 89,8 | 93,9 | 98,7 | 106  | 117  | 128     | 152  | 164  |
| UP1 L 235  | 235               | 23,5  | 28,9 | 43,1 | 59,3 | 71,7 | 78,8 | 88,7 | 95,3    | 106  | 114  | 119  | 125  | 135  | 149  | 162     | 193  | 208  |
| UP1 L 280  | 280               | 28,0  | 34,5 | 51,4 | 70,6 | 85,4 | 93,9 | 106  | 113     | 126  | 136  | 142  | 149  | 161  | 177  | 194     | 230  | 248  |
| UP1 L 325  | 325               | 32,5  | 40,0 | 59,6 | 82,0 | 99,1 | 109  | 123  | 132     | 146  | 158  | 165  | 173  | 187  | 206  | 225     | 267  | 288  |
| UP1 L 375  | 375               | 37,5  | 46,2 | 68,8 | 94,6 | 114  | 126  | 142  | 152     | 169  | 182  | 190  | 200  | 215  | 237  | 259     | 308  | 332  |
| UP1 L 420  | 420               | 42,0  | 51,7 | 77,0 | 106  | 128  | 141  | 159  | 170     | 189  | 204  | 213  | 224  | 241  | 266  | 290     | 345  | 372  |
| UP1 L 470  | 470               | 47,0  | 57,9 | 86,2 | 119  | 143  | 158  | 177  | 191     | 211  | 228  | 239  | 251  | 270  | 298  | 325     | 386  | 416  |
| UP1 L 515  | 515               | 51,5  | 63,4 | 94,5 | 130  | 157  | 173  | 194  | 209     | 232  | 250  | 261  | 275  | 296  | 326  | 356     | 423  | 456  |
| UP1 L 560  | 560               | 56,0  | 69,0 | 103  | 141  | 171  | 188  | 211  | 227     | 252  | 272  | 284  | 299  | 322  | 355  | 387     | 459  | 496  |
| UP1 L 610  | 610               | 61,0  | 75,1 | 112  | 154  | 186  | 205  | 230  | 247     | 274  | 296  | 310  | 325  | 350  | 386  | 422     | 500  | 540  |
| UP1 L 650  | 650               | 65,0  | 80,0 | 119  | 164  | 198  | 218  | 245  | 263     | 292  | 316  | 330  | 347  | 373  | 412  | 449     | 533  | 575  |
| UP1 L 700  | 700               | 70,0  | 86,2 | 128  | 177  | 213  | 235  | 264  | 284     | 315  | 340  | 355  | 373  | 402  | 443  | 484     | 574  | 620  |
| UP1 L 750  | 750               | 75,0  | 92,3 | 138  | 189  | 229  | 252  | 283  | 304     | 337  | 364  | 381  | 400  | 431  | 475  | 518     | 615  | 664  |
| UP1 L 800  | 800               | 80,0  | 98,5 | 147  | 202  | 244  | 268  | 302  | 324     | 360  | 389  | 406  | 427  | 460  | 506  | 553     | 656  | 708  |
| UP1 L 840  | 840               | 84,0  | 103  | 154  | 212  | 256  | 282  | 317  | 340     | 378  | 408  | 426  | 448  | 483  | 532  | 581     | 689  | 743  |
| UP1 L 890  | 890               | 89,0  | 110  | 163  | 224  | 271  | 298  | 336  | 361     | 400  | 432  | 452  | 475  | 511  | 563  | 615     | 730  | 788  |
| UP1 L 940  | 940               | 94,0  | 116  | 172  | 237  | 287  | 315  | 355  | 381     | 423  | 457  | 477  | 502  | 540  | 595  | 650     | 771  | 832  |
| UP1 L 980  | 980               | 98,0  | 121  | 180  | 247  | 299  | 329  | 370  | 397     | 441  | 476  | 498  | 523  | 563  | 620  | 677     | 804  | 867  |
| UP1 L 1030 | 1030              | 103   | 127  | 189  | 260  | 314  | 345  | 389  | 417     | 463  | 500  | 523  | 550  | 592  | 652  | 712     | 845  | 912  |
| UP1 L 1120 | 1120              | 112   | 138  | 205  | 282  | 342  | 376  | 423  | 454     | 504  | 544  | 569  | 598  | 644  | 709  | 774     | 919  | 991  |
| UP1 L 1220 | 1220              | 122   | 150  | 224  | 308  | 372  | 409  | 461  | 495     | 549  | 592  | 619  | 651  | 701  | 772  | 843     | 1001 | 1080 |
| UP1 L 1300 | 1300              | 130   | 160  | 238  | 328  | 396  | 436  | 491  | 527     | 585  | 631  | 660  | 694  | 747  | 823  | 899     | 1067 | 1151 |
| UP1 L 1400 | 1400              | 140   | 172  | 257  | 353  | 427  | 469  | 529  | 567     | 630  | 680  | 711  | 747  | 804  | 886  | 968     | 1149 | 1239 |
| UP1 L 1500 | 1500              | 150   | 185  | 275  | 378  | 457  | 503  | 566  | 608     | 675  | 728  | 762  | 800  | 862  | 950  | 1037    | 1231 | 1328 |
| UP1 L 1600 | 1600              | 160   | 197  | 293  | 403  | 488  | 537  | 604  | 649     | 720  | 777  | 812  | 854  | 919  | 1013 | 1106    | 1313 | 1416 |
| UP1 L 1700 | 1700              | 170   | 209  | 312  | 429  | 518  | 570  | 642  | 689     | 765  | 826  | 863  | 907  | 977  | 1076 | 1175    | 1395 | 1505 |



**Final voltage: 1.14 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 L 15   | 15                | 1,41  | 1,66 | 2,26 | 3,02 | 3,69 | 4,14 | 4,82 | 5,44    | 6,16 | 6,79 | 7,25 | 7,79 | 8,62 | 10,1 | 11,3    | 14,0 | 15,3 |
| UP1 L 30   | 30                | 2,82  | 3,32 | 4,53 | 6,04 | 7,38 | 8,28 | 9,65 | 10,9    | 12,3 | 13,6 | 14,5 | 15,6 | 17,2 | 20,2 | 22,6    | 27,9 | 30,6 |
| UP1 L 47   | 47                | 4,42  | 5,21 | 7,09 | 9,45 | 11,6 | 13,0 | 15,1 | 17,0    | 19,3 | 21,3 | 22,7 | 24,4 | 27,0 | 31,6 | 35,3    | 43,7 | 48,0 |
| UP1 L 62   | 62                | 5,83  | 6,87 | 9,35 | 12,5 | 15,3 | 17,1 | 19,9 | 22,5    | 25,5 | 28,1 | 30,0 | 32,2 | 35,6 | 41,7 | 46,6    | 57,7 | 63,3 |
| UP1 L 75   | 75                | 7,05  | 8,31 | 11,3 | 15,1 | 18,5 | 20,7 | 24,1 | 27,2    | 30,8 | 34,0 | 36,3 | 38,9 | 43,1 | 50,4 | 56,4    | 69,8 | 76,6 |
| UP1 L 95   | 95                | 9,03  | 10,7 | 14,8 | 18,7 | 22,3 | 24,7 | 27,6 | 29,6    | 32,3 | 35,1 | 37,5 | 40,3 | 45,6 | 47,3 | 52,5    | 62,4 | 66,4 |
| UP1 L 110  | 110               | 10,3  | 12,2 | 16,6 | 22,1 | 27,1 | 30,4 | 35,4 | 39,9    | 45,2 | 49,8 | 53,2 | 57,1 | 63,2 | 74,0 | 82,7    | 102  | 112  |
| UP1 L 140  | 140               | 13,3  | 15,8 | 21,8 | 27,5 | 32,9 | 36,4 | 40,7 | 43,6    | 47,6 | 51,7 | 55,3 | 59,5 | 67,3 | 69,8 | 77,4    | 91,9 | 97,8 |
| UP1 L 185  | 185               | 17,6  | 20,9 | 28,9 | 36,4 | 43,5 | 48,1 | 53,8 | 57,6    | 62,9 | 68,3 | 73,0 | 78,6 | 88,9 | 92,2 | 102     | 121  | 129  |
| UP1 L 235  | 235               | 22,3  | 26,6 | 36,7 | 46,2 | 55,2 | 61,1 | 68,4 | 73,1    | 79,9 | 86,7 | 92,7 | 100  | 113  | 117  | 130     | 154  | 164  |
| UP1 L 280  | 280               | 26,6  | 31,7 | 43,7 | 55,1 | 65,8 | 72,8 | 81,5 | 87,2    | 95,2 | 103  | 111  | 119  | 135  | 140  | 155     | 184  | 196  |
| UP1 L 325  | 325               | 30,9  | 36,8 | 50,7 | 63,9 | 76,4 | 84,5 | 94,6 | 101     | 111  | 120  | 128  | 138  | 156  | 162  | 180     | 213  | 227  |
| UP1 L 375  | 375               | 35,6  | 42,4 | 58,5 | 73,8 | 88,1 | 97,5 | 109  | 117     | 128  | 138  | 148  | 159  | 180  | 187  | 207     | 246  | 262  |
| UP1 L 420  | 420               | 39,9  | 47,5 | 65,5 | 82,6 | 98,7 | 109  | 122  | 131     | 143  | 155  | 166  | 178  | 202  | 209  | 232     | 276  | 294  |
| UP1 L 470  | 470               | 44,7  | 53,2 | 73,3 | 92,4 | 110  | 122  | 137  | 146     | 160  | 173  | 185  | 200  | 226  | 234  | 260     | 308  | 328  |
| UP1 L 515  | 515               | 48,9  | 58,3 | 80,3 | 101  | 121  | 134  | 150  | 160     | 175  | 190  | 203  | 219  | 247  | 257  | 285     | 338  | 360  |
| UP1 L 560  | 560               | 53,2  | 63,4 | 87,4 | 110  | 132  | 146  | 163  | 174     | 190  | 207  | 221  | 238  | 269  | 279  | 310     | 368  | 391  |
| UP1 L 610  | 610               | 58,0  | 69,0 | 95,2 | 120  | 143  | 159  | 178  | 190     | 207  | 225  | 241  | 259  | 293  | 304  | 337     | 400  | 426  |
| UP1 L 650  | 650               | 61,8  | 73,5 | 101  | 128  | 153  | 169  | 189  | 202     | 221  | 240  | 257  | 276  | 312  | 324  | 359     | 427  | 454  |
| UP1 L 700  | 700               | 66,5  | 79,2 | 109  | 138  | 165  | 182  | 204  | 218     | 238  | 258  | 276  | 297  | 336  | 349  | 387     | 459  | 489  |
| UP1 L 750  | 750               | 71,3  | 84,8 | 117  | 148  | 176  | 195  | 218  | 233     | 255  | 277  | 296  | 319  | 360  | 374  | 415     | 492  | 524  |
| UP1 L 800  | 800               | 76,0  | 90,5 | 125  | 157  | 188  | 208  | 233  | 249     | 272  | 295  | 316  | 340  | 384  | 399  | 442     | 525  | 559  |
| UP1 L 840  | 840               | 79,8  | 95,0 | 131  | 165  | 197  | 218  | 244  | 261     | 286  | 310  | 332  | 357  | 404  | 419  | 465     | 551  | 587  |
| UP1 L 890  | 890               | 84,6  | 101  | 139  | 175  | 209  | 231  | 259  | 277     | 303  | 328  | 351  | 378  | 428  | 444  | 492     | 584  | 622  |
| UP1 L 940  | 940               | 89,3  | 106  | 147  | 185  | 221  | 244  | 274  | 293     | 320  | 347  | 371  | 399  | 452  | 468  | 520     | 617  | 657  |
| UP1 L 980  | 980               | 93,1  | 111  | 153  | 193  | 230  | 255  | 285  | 305     | 333  | 362  | 387  | 416  | 471  | 488  | 542     | 643  | 685  |
| UP1 L 1030 | 1030              | 97,9  | 117  | 161  | 203  | 242  | 268  | 300  | 321     | 350  | 380  | 407  | 437  | 495  | 513  | 570     | 676  | 720  |
| UP1 L 1120 | 1120              | 106   | 127  | 175  | 220  | 263  | 291  | 326  | 349     | 381  | 413  | 442  | 476  | 538  | 558  | 619     | 735  | 783  |
| UP1 L 1220 | 1220              | 116   | 138  | 190  | 240  | 287  | 317  | 355  | 380     | 415  | 450  | 482  | 518  | 586  | 608  | 675     | 801  | 853  |
| UP1 L 1300 | 1300              | 124   | 147  | 203  | 256  | 306  | 338  | 378  | 405     | 442  | 480  | 513  | 552  | 625  | 648  | 719     | 853  | 909  |
| UP1 L 1400 | 1400              | 133   | 158  | 218  | 275  | 329  | 364  | 407  | 436     | 476  | 517  | 553  | 595  | 673  | 698  | 774     | 919  | 978  |
| UP1 L 1500 | 1500              | 143   | 170  | 234  | 295  | 353  | 390  | 437  | 467     | 510  | 554  | 592  | 637  | 721  | 748  | 830     | 985  | 1048 |
| UP1 L 1600 | 1600              | 152   | 181  | 250  | 315  | 376  | 416  | 466  | 498     | 544  | 590  | 631  | 680  | 769  | 797  | 885     | 1050 | 1118 |
| UP1 L 1700 | 1700              | 162   | 192  | 265  | 334  | 400  | 442  | 495  | 529     | 578  | 627  | 671  | 722  | 817  | 847  | 940     | 1116 | 1188 |

# Uptimax

## Electrical performance M range



Final voltage: 1.00 V/cell

Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 M 8    | 8                 | 0,83  | 1,03 | 1,60 | 2,64 | 3,83 | 5,01 | 7,26 | 8,53    | 10,2 | 11,8 | 13,0 | 14,9 | 17,5 | 18,9 | 20,6    | 25,2 | 28,3 |
| UP1 M 16   | 16                | 1,66  | 2,05 | 3,20 | 5,28 | 7,66 | 10,0 | 14,5 | 17,1    | 20,3 | 23,5 | 26,0 | 29,7 | 35,0 | 37,7 | 41,2    | 50,4 | 56,6 |
| UP1 M 24   | 24                | 2,49  | 3,08 | 4,80 | 7,92 | 11,5 | 15,0 | 21,8 | 25,6    | 30,5 | 35,3 | 39,0 | 44,6 | 52,6 | 56,6 | 61,8    | 75,6 | 85,0 |
| UP1 M 32   | 32                | 3,32  | 4,10 | 6,40 | 10,6 | 15,3 | 20,1 | 29,0 | 34,1    | 40,6 | 47,1 | 52,0 | 59,4 | 70,1 | 75,4 | 82,4    | 101  | 113  |
| UP1 M 40   | 40                | 4,14  | 5,13 | 8,00 | 13,2 | 19,2 | 25,1 | 36,3 | 42,7    | 50,8 | 58,8 | 64,9 | 74,3 | 87,6 | 94,0 | 103     | 126  | 142  |
| UP1 M 48   | 48                | 4,97  | 6,15 | 9,60 | 15,8 | 23,0 | 30,1 | 43,5 | 51,2    | 61,0 | 70,6 | 77,9 | 89,2 | 105  | 113  | 124     | 151  | 170  |
| UP1 M 65   | 65                | 6,73  | 8,33 | 13,0 | 21,5 | 31,1 | 40,7 | 59,0 | 69,3    | 82,5 | 95,6 | 106  | 121  | 142  | 153  | 167     | 205  | 230  |
| UP1 M 75   | 75                | 7,74  | 9,58 | 15,0 | 24,5 | 36,0 | 47,1 | 67,9 | 80,1    | 94,2 | 106  | 114  | 126  | 140  | 146  | 155     | 176  | 189  |
| UP1 M 100  | 100               | 10,3  | 12,8 | 20,0 | 32,7 | 48,0 | 62,7 | 90,5 | 107     | 126  | 142  | 152  | 167  | 186  | 194  | 206     | 235  | 252  |
| UP1 M 125  | 125               | 12,9  | 16,0 | 25,0 | 40,8 | 59,9 | 78,4 | 113  | 134     | 157  | 177  | 190  | 209  | 233  | 243  | 258     | 294  | 315  |
| UP1 M 150  | 150               | 15,5  | 19,2 | 30,0 | 49,0 | 71,9 | 94,1 | 136  | 160     | 188  | 212  | 228  | 251  | 279  | 291  | 310     | 353  | 378  |
| UP1 M 170  | 170               | 17,5  | 21,7 | 34,0 | 55,5 | 81,5 | 107  | 154  | 182     | 214  | 241  | 258  | 285  | 317  | 330  | 351     | 400  | 429  |
| UP1 M 195  | 195               | 20,1  | 24,9 | 39,0 | 63,7 | 93,5 | 122  | 176  | 208     | 245  | 276  | 296  | 326  | 363  | 378  | 402     | 458  | 492  |
| UP1 M 220  | 220               | 22,7  | 28,1 | 44,0 | 71,9 | 105  | 138  | 199  | 235     | 276  | 312  | 334  | 368  | 410  | 427  | 454     | 517  | 555  |
| UP1 M 245  | 245               | 25,3  | 31,3 | 49,0 | 80,0 | 117  | 154  | 222  | 262     | 308  | 347  | 372  | 410  | 456  | 476  | 506     | 576  | 618  |
| UP1 M 270  | 270               | 27,9  | 34,5 | 54,0 | 88,2 | 129  | 169  | 244  | 288     | 339  | 382  | 410  | 452  | 503  | 524  | 557     | 635  | 681  |
| UP1 M 295  | 295               | 30,4  | 37,7 | 59,0 | 96,4 | 141  | 185  | 267  | 315     | 371  | 418  | 448  | 494  | 549  | 573  | 609     | 694  | 744  |
| UP1 M 320  | 320               | 33,0  | 40,9 | 64,0 | 105  | 153  | 201  | 290  | 342     | 402  | 453  | 486  | 536  | 596  | 621  | 660     | 752  | 807  |
| UP1 M 345  | 345               | 35,6  | 44,1 | 69,0 | 113  | 165  | 216  | 312  | 368     | 433  | 489  | 524  | 578  | 642  | 670  | 712     | 811  | 870  |
| UP1 M 370  | 370               | 38,2  | 47,3 | 74,0 | 121  | 177  | 232  | 335  | 395     | 465  | 524  | 562  | 619  | 689  | 718  | 764     | 870  | 933  |
| UP1 M 395  | 395               | 40,8  | 50,5 | 79,0 | 129  | 189  | 248  | 357  | 422     | 496  | 559  | 600  | 661  | 736  | 767  | 815     | 929  | 996  |
| UP1 M 420  | 420               | 43,3  | 53,6 | 84,0 | 137  | 201  | 263  | 380  | 449     | 528  | 595  | 638  | 703  | 782  | 815  | 867     | 987  | 1059 |
| UP1 M 445  | 445               | 45,9  | 56,8 | 89,0 | 145  | 213  | 279  | 403  | 475     | 559  | 630  | 676  | 745  | 829  | 864  | 918     | 1046 | 1122 |
| UP1 M 490  | 490               | 50,6  | 62,6 | 98,0 | 160  | 235  | 307  | 443  | 523     | 615  | 694  | 745  | 820  | 912  | 951  | 1011    | 1152 | 1236 |
| UP1 M 540  | 540               | 55,7  | 69,0 | 108  | 176  | 259  | 339  | 489  | 577     | 678  | 765  | 821  | 904  | 1006 | 1048 | 1114    | 1269 | 1362 |
| UP1 M 590  | 590               | 60,9  | 75,4 | 118  | 193  | 283  | 370  | 534  | 630     | 741  | 835  | 897  | 988  | 1099 | 1145 | 1218    | 1387 | 1488 |
| UP1 M 640  | 640               | 66,0  | 81,7 | 128  | 209  | 307  | 401  | 579  | 684     | 804  | 906  | 973  | 1071 | 1192 | 1242 | 1321    | 1505 | 1614 |
| UP1 M 690  | 690               | 71,2  | 88,1 | 138  | 225  | 331  | 433  | 624  | 737     | 867  | 977  | 1049 | 1155 | 1285 | 1339 | 1424    | 1622 | 1740 |
| UP1 M 740  | 740               | 76,4  | 94,5 | 148  | 242  | 355  | 464  | 670  | 790     | 929  | 1048 | 1125 | 1239 | 1378 | 1436 | 1527    | 1740 | 1866 |
| UP1 M 785  | 785               | 81,0  | 100  | 157  | 256  | 376  | 492  | 710  | 838     | 986  | 1112 | 1193 | 1314 | 1462 | 1524 | 1620    | 1845 | 1980 |
| UP1 M 835  | 835               | 86,2  | 107  | 167  | 273  | 400  | 524  | 756  | 892     | 1049 | 1182 | 1269 | 1398 | 1555 | 1621 | 1723    | 1963 | 2106 |
| UP1 M 885  | 885               | 91,3  | 113  | 177  | 289  | 424  | 555  | 801  | 945     | 1112 | 1253 | 1345 | 1481 | 1648 | 1718 | 1827    | 2081 | 2232 |
| UP1 M 935  | 935               | 96,5  | 119  | 187  | 305  | 448  | 587  | 846  | 999     | 1174 | 1324 | 1421 | 1565 | 1741 | 1815 | 1930    | 2198 | 2358 |
| UP1 M 985  | 985               | 102   | 126  | 197  | 322  | 472  | 618  | 891  | 1052    | 1237 | 1395 | 1497 | 1649 | 1834 | 1912 | 2033    | 2316 | 2484 |
| UP1 M 1030 | 1030              | 106   | 132  | 206  | 336  | 494  | 646  | 932  | 1100    | 1294 | 1458 | 1566 | 1724 | 1918 | 1999 | 2126    | 2421 | 2597 |
| UP1 M 1130 | 1130              | 117   | 144  | 226  | 369  | 542  | 709  | 1023 | 1207    | 1419 | 1600 | 1718 | 1892 | 2104 | 2193 | 2332    | 2657 | 2850 |
| UP1 M 1230 | 1230              | 127   | 157  | 246  | 402  | 590  | 772  | 1113 | 1314    | 1545 | 1742 | 1870 | 2059 | 2290 | 2387 | 2539    | 2892 | 3102 |
| UP1 M 1330 | 1330              | 137   | 170  | 266  | 434  | 638  | 834  | 1204 | 1420    | 1670 | 1883 | 2022 | 2226 | 2477 | 2581 | 2745    | 3127 | 3354 |





**Final voltage: 1.05 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 M 8    | 8                 | 0,83  | 1,02 | 1,59 | 2,63 | 3,78 | 4,90 | 6,24 | 7,51    | 8,67 | 10,0 | 10,8 | 11,9 | 14,3 | 15,7 | 17,3    | 21,2 | 23,9 |
| UP1 M 16   | 16                | 1,65  | 2,04 | 3,18 | 5,25 | 7,57 | 9,79 | 12,5 | 15,0    | 17,3 | 19,9 | 21,5 | 23,8 | 28,6 | 31,4 | 34,6    | 42,5 | 47,7 |
| UP1 M 24   | 24                | 2,48  | 3,06 | 4,77 | 7,88 | 11,4 | 14,7 | 18,7 | 22,5    | 26,0 | 29,9 | 32,3 | 35,6 | 43,0 | 47,1 | 51,9    | 63,7 | 71,6 |
| UP1 M 32   | 32                | 3,30  | 4,08 | 6,36 | 10,5 | 15,1 | 19,6 | 25,0 | 30,0    | 34,7 | 39,9 | 43,0 | 47,5 | 57,3 | 62,8 | 69,2    | 85,0 | 95,4 |
| UP1 M 40   | 40                | 4,13  | 5,11 | 7,94 | 13,1 | 18,9 | 24,5 | 31,2 | 37,6    | 43,3 | 49,8 | 53,8 | 59,4 | 71,6 | 78,5 | 86,5    | 106  | 119  |
| UP1 M 48   | 48                | 4,95  | 6,13 | 9,53 | 15,8 | 22,7 | 29,4 | 37,4 | 45,1    | 52,0 | 59,8 | 64,5 | 71,3 | 85,9 | 94,2 | 104     | 127  | 143  |
| UP1 M 65   | 65                | 6,71  | 8,30 | 12,9 | 21,3 | 30,7 | 39,8 | 50,7 | 61,0    | 70,4 | 81,0 | 87,4 | 96,5 | 116  | 128  | 141     | 173  | 194  |
| UP1 M 75   | 75                | 7,65  | 9,55 | 14,9 | 24,3 | 35,5 | 46,0 | 60,0 | 69,0    | 78,8 | 87,8 | 93,6 | 102  | 114  | 123  | 131     | 149  | 160  |
| UP1 M 100  | 100               | 10,2  | 12,7 | 19,9 | 32,4 | 47,4 | 61,3 | 80,0 | 92,0    | 105  | 117  | 125  | 136  | 153  | 163  | 175     | 199  | 213  |
| UP1 M 125  | 125               | 12,8  | 15,9 | 24,9 | 40,5 | 59,2 | 76,7 | 100  | 115     | 131  | 146  | 156  | 170  | 191  | 204  | 219     | 249  | 266  |
| UP1 M 150  | 150               | 15,3  | 19,1 | 29,9 | 48,6 | 71,0 | 92,0 | 120  | 138     | 158  | 176  | 187  | 204  | 229  | 245  | 262     | 298  | 319  |
| UP1 M 170  | 170               | 17,3  | 21,6 | 33,8 | 55,0 | 80,5 | 104  | 136  | 156     | 179  | 199  | 212  | 232  | 259  | 278  | 297     | 338  | 362  |
| UP1 M 195  | 195               | 19,9  | 24,8 | 38,8 | 63,1 | 92,3 | 120  | 156  | 179     | 205  | 228  | 243  | 266  | 298  | 319  | 341     | 388  | 415  |
| UP1 M 220  | 220               | 22,4  | 28,0 | 43,8 | 71,2 | 104  | 135  | 176  | 202     | 231  | 257  | 275  | 300  | 336  | 360  | 385     | 437  | 468  |
| UP1 M 245  | 245               | 25,0  | 31,2 | 48,8 | 79,3 | 116  | 150  | 196  | 225     | 257  | 287  | 306  | 334  | 374  | 401  | 428     | 487  | 521  |
| UP1 M 270  | 270               | 27,5  | 34,4 | 53,8 | 87,4 | 128  | 166  | 216  | 248     | 284  | 316  | 337  | 368  | 412  | 441  | 472     | 537  | 575  |
| UP1 M 295  | 295               | 30,1  | 37,5 | 58,7 | 95,5 | 140  | 181  | 236  | 271     | 310  | 345  | 368  | 402  | 450  | 482  | 516     | 587  | 628  |
| UP1 M 320  | 320               | 32,6  | 40,7 | 63,7 | 104  | 152  | 196  | 256  | 294     | 336  | 374  | 399  | 436  | 488  | 523  | 559     | 636  | 681  |
| UP1 M 345  | 345               | 35,2  | 43,9 | 68,7 | 112  | 163  | 212  | 276  | 317     | 362  | 404  | 431  | 470  | 526  | 564  | 603     | 686  | 734  |
| UP1 M 370  | 370               | 37,7  | 47,1 | 73,7 | 120  | 175  | 227  | 296  | 340     | 389  | 433  | 462  | 504  | 565  | 605  | 647     | 736  | 788  |
| UP1 M 395  | 395               | 40,3  | 50,3 | 78,6 | 128  | 187  | 242  | 316  | 363     | 415  | 462  | 493  | 538  | 603  | 646  | 691     | 785  | 841  |
| UP1 M 420  | 420               | 42,8  | 53,5 | 83,6 | 136  | 199  | 258  | 336  | 386     | 441  | 491  | 524  | 572  | 641  | 687  | 734     | 835  | 894  |
| UP1 M 445  | 445               | 45,4  | 56,6 | 88,6 | 144  | 211  | 273  | 356  | 409     | 467  | 521  | 555  | 606  | 679  | 727  | 778     | 885  | 947  |
| UP1 M 490  | 490               | 50,0  | 62,4 | 97,6 | 159  | 232  | 301  | 392  | 451     | 515  | 573  | 612  | 667  | 748  | 801  | 857     | 974  | 1043 |
| UP1 M 540  | 540               | 55,1  | 68,7 | 108  | 175  | 256  | 331  | 432  | 497     | 567  | 632  | 674  | 735  | 824  | 883  | 944     | 1074 | 1149 |
| UP1 M 590  | 590               | 60,2  | 75,1 | 117  | 191  | 279  | 362  | 472  | 543     | 620  | 690  | 736  | 804  | 900  | 965  | 1031    | 1173 | 1256 |
| UP1 M 640  | 640               | 65,3  | 81,5 | 127  | 207  | 303  | 393  | 512  | 589     | 672  | 749  | 799  | 872  | 977  | 1046 | 1119    | 1273 | 1362 |
| UP1 M 690  | 690               | 70,4  | 87,8 | 137  | 223  | 327  | 423  | 552  | 635     | 725  | 807  | 861  | 940  | 1053 | 1128 | 1206    | 1372 | 1469 |
| UP1 M 740  | 740               | 75,5  | 94,2 | 147  | 240  | 350  | 454  | 592  | 681     | 777  | 866  | 924  | 1008 | 1129 | 1210 | 1294    | 1471 | 1575 |
| UP1 M 785  | 785               | 80,1  | 100  | 156  | 254  | 372  | 481  | 628  | 722     | 824  | 918  | 980  | 1069 | 1198 | 1283 | 1372    | 1561 | 1671 |
| UP1 M 835  | 835               | 85,2  | 106  | 166  | 270  | 395  | 512  | 668  | 768     | 877  | 977  | 1042 | 1137 | 1274 | 1365 | 1460    | 1660 | 1777 |
| UP1 M 885  | 885               | 90,3  | 113  | 176  | 286  | 419  | 543  | 708  | 814     | 929  | 1035 | 1104 | 1205 | 1351 | 1447 | 1547    | 1760 | 1884 |
| UP1 M 935  | 935               | 95,4  | 119  | 186  | 303  | 443  | 573  | 748  | 860     | 982  | 1094 | 1167 | 1273 | 1427 | 1529 | 1635    | 1859 | 1990 |
| UP1 M 985  | 985               | 100   | 125  | 196  | 319  | 466  | 604  | 788  | 906     | 1034 | 1152 | 1229 | 1342 | 1503 | 1610 | 1722    | 1959 | 2097 |
| UP1 M 1030 | 1030              | 105   | 131  | 205  | 333  | 488  | 632  | 824  | 948     | 1082 | 1205 | 1285 | 1403 | 1572 | 1684 | 1801    | 2048 | 2192 |
| UP1 M 1130 | 1130              | 115   | 144  | 225  | 366  | 535  | 693  | 904  | 1040    | 1187 | 1322 | 1410 | 1539 | 1724 | 1847 | 1975    | 2247 | 2405 |
| UP1 M 1230 | 1230              | 125   | 157  | 245  | 398  | 582  | 754  | 984  | 1132    | 1292 | 1439 | 1535 | 1675 | 1877 | 2011 | 2150    | 2446 | 2618 |
| UP1 M 1330 | 1330              | 136   | 169  | 265  | 430  | 630  | 816  | 1064 | 1224    | 1397 | 1556 | 1660 | 1811 | 2030 | 2174 | 2325    | 2645 | 2831 |

# Uptimax

## Electrical performance M range



**Final voltage: 1.10 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 M 8    | 8                 | 0,82  | 1,02 | 1,58 | 2,56 | 3,53 | 4,30 | 5,45 | 6,15    | 6,88 | 7,91 | 8,53 | 9,39 | 11,0 | 13,0 | 14,3    | 17,5 | 19,6 |
| UP1 M 16   | 16                | 1,64  | 2,03 | 3,16 | 5,12 | 7,07 | 8,59 | 10,9 | 12,3    | 13,8 | 15,8 | 17,1 | 18,8 | 22,0 | 26,0 | 28,6    | 35,0 | 39,2 |
| UP1 M 24   | 24                | 2,46  | 3,05 | 4,75 | 7,68 | 10,6 | 12,9 | 16,4 | 18,5    | 20,6 | 23,7 | 25,6 | 28,2 | 32,9 | 38,9 | 42,9    | 52,5 | 58,8 |
| UP1 M 32   | 32                | 3,28  | 4,07 | 6,33 | 10,2 | 14,1 | 17,2 | 21,8 | 24,6    | 27,5 | 31,7 | 34,1 | 37,5 | 43,9 | 51,9 | 57,2    | 70,0 | 78,4 |
| UP1 M 40   | 40                | 4,10  | 5,09 | 7,91 | 12,8 | 17,7 | 21,5 | 27,3 | 30,8    | 34,4 | 39,6 | 42,7 | 46,9 | 54,9 | 64,9 | 71,5    | 87,5 | 98,0 |
| UP1 M 48   | 48                | 4,92  | 6,10 | 9,49 | 15,4 | 21,2 | 25,8 | 32,7 | 36,9    | 41,3 | 47,5 | 51,2 | 56,3 | 65,9 | 77,9 | 85,8    | 105  | 118  |
| UP1 M 65   | 65                | 6,66  | 8,26 | 12,9 | 20,8 | 28,7 | 34,9 | 44,3 | 50,0    | 55,9 | 64,3 | 69,3 | 76,3 | 89,2 | 105  | 116     | 142  | 159  |
| UP1 M 75   | 75                | 7,57  | 9,38 | 14,7 | 23,7 | 33,4 | 40,9 | 51,0 | 56,0    | 62,7 | 68,6 | 73,5 | 79,7 | 89,7 | 102  | 109     | 125  | 133  |
| UP1 M 100  | 100               | 10,1  | 12,5 | 19,6 | 31,5 | 44,5 | 54,5 | 68,0 | 74,7    | 83,6 | 91,5 | 98,0 | 106  | 120  | 135  | 146     | 166  | 177  |
| UP1 M 125  | 125               | 12,6  | 15,6 | 24,5 | 39,4 | 55,6 | 68,2 | 85,0 | 93,3    | 105  | 114  | 123  | 133  | 150  | 169  | 182     | 208  | 221  |
| UP1 M 150  | 150               | 15,1  | 18,8 | 29,4 | 47,3 | 66,8 | 81,8 | 102  | 112     | 125  | 137  | 147  | 159  | 179  | 203  | 219     | 249  | 265  |
| UP1 M 170  | 170               | 17,2  | 21,3 | 33,3 | 53,6 | 75,7 | 92,7 | 116  | 127     | 142  | 156  | 167  | 181  | 203  | 230  | 248     | 283  | 300  |
| UP1 M 195  | 195               | 19,7  | 24,4 | 38,2 | 61,5 | 86,8 | 106  | 133  | 146     | 163  | 178  | 191  | 207  | 233  | 264  | 284     | 324  | 345  |
| UP1 M 220  | 220               | 22,2  | 27,5 | 43,1 | 69,4 | 97,9 | 120  | 150  | 164     | 184  | 201  | 216  | 234  | 263  | 298  | 321     | 366  | 389  |
| UP1 M 245  | 245               | 24,7  | 30,6 | 48,0 | 77,3 | 109  | 134  | 167  | 183     | 205  | 224  | 240  | 260  | 293  | 332  | 357     | 407  | 433  |
| UP1 M 270  | 270               | 27,2  | 33,8 | 52,9 | 85,1 | 120  | 147  | 184  | 202     | 226  | 247  | 265  | 287  | 323  | 365  | 394     | 449  | 477  |
| UP1 M 295  | 295               | 29,8  | 36,9 | 57,8 | 93,0 | 131  | 161  | 201  | 220     | 247  | 270  | 289  | 313  | 353  | 399  | 430     | 490  | 521  |
| UP1 M 320  | 320               | 32,3  | 40,0 | 62,7 | 101  | 142  | 175  | 218  | 239     | 268  | 293  | 314  | 340  | 383  | 433  | 467     | 532  | 566  |
| UP1 M 345  | 345               | 34,8  | 43,1 | 67,6 | 109  | 154  | 188  | 235  | 258     | 288  | 316  | 338  | 366  | 413  | 467  | 503     | 574  | 610  |
| UP1 M 370  | 370               | 37,3  | 46,3 | 72,5 | 117  | 165  | 202  | 252  | 276     | 309  | 339  | 363  | 393  | 443  | 501  | 540     | 615  | 654  |
| UP1 M 395  | 395               | 39,9  | 49,4 | 77,4 | 125  | 176  | 215  | 269  | 295     | 330  | 361  | 387  | 420  | 473  | 535  | 576     | 657  | 698  |
| UP1 M 420  | 420               | 42,4  | 52,5 | 82,3 | 132  | 187  | 229  | 286  | 314     | 351  | 384  | 412  | 446  | 503  | 568  | 613     | 698  | 742  |
| UP1 M 445  | 445               | 44,9  | 55,6 | 87,2 | 140  | 198  | 243  | 303  | 332     | 372  | 407  | 436  | 473  | 532  | 602  | 649     | 740  | 787  |
| UP1 M 490  | 490               | 49,4  | 61,3 | 96,0 | 155  | 218  | 267  | 333  | 366     | 410  | 448  | 480  | 520  | 586  | 663  | 715     | 815  | 866  |
| UP1 M 540  | 540               | 54,5  | 67,5 | 106  | 170  | 240  | 294  | 367  | 403     | 451  | 494  | 529  | 574  | 646  | 731  | 788     | 898  | 954  |
| UP1 M 590  | 590               | 59,5  | 73,8 | 116  | 186  | 263  | 322  | 401  | 441     | 493  | 540  | 578  | 627  | 706  | 799  | 861     | 981  | 1043 |
| UP1 M 640  | 640               | 64,6  | 80,0 | 125  | 202  | 285  | 349  | 435  | 478     | 535  | 586  | 627  | 680  | 766  | 866  | 934     | 1064 | 1131 |
| UP1 M 690  | 690               | 69,6  | 86,3 | 135  | 218  | 307  | 376  | 469  | 515     | 577  | 631  | 676  | 733  | 826  | 934  | 1006    | 1147 | 1220 |
| UP1 M 740  | 740               | 74,7  | 92,5 | 145  | 233  | 329  | 404  | 503  | 553     | 619  | 677  | 725  | 786  | 885  | 1002 | 1079    | 1230 | 1308 |
| UP1 M 785  | 785               | 79,2  | 98,1 | 154  | 248  | 349  | 428  | 534  | 586     | 656  | 718  | 769  | 834  | 939  | 1063 | 1145    | 1305 | 1387 |
| UP1 M 835  | 835               | 84,3  | 104  | 164  | 263  | 372  | 455  | 568  | 623     | 698  | 764  | 818  | 887  | 999  | 1130 | 1218    | 1388 | 1476 |
| UP1 M 885  | 885               | 89,3  | 111  | 173  | 279  | 394  | 483  | 602  | 661     | 740  | 810  | 867  | 940  | 1059 | 1198 | 1291    | 1471 | 1564 |
| UP1 M 935  | 935               | 94,4  | 117  | 183  | 295  | 416  | 510  | 636  | 698     | 782  | 856  | 916  | 993  | 1119 | 1266 | 1364    | 1554 | 1653 |
| UP1 M 985  | 985               | 99,4  | 123  | 193  | 311  | 438  | 537  | 670  | 735     | 823  | 901  | 965  | 1046 | 1179 | 1333 | 1437    | 1637 | 1741 |
| UP1 M 1030 | 1030              | 104   | 129  | 202  | 325  | 458  | 562  | 700  | 769     | 861  | 942  | 1009 | 1094 | 1233 | 1394 | 1502    | 1712 | 1820 |
| UP1 M 1130 | 1130              | 114   | 141  | 221  | 356  | 503  | 616  | 768  | 844     | 945  | 1034 | 1107 | 1200 | 1352 | 1529 | 1648    | 1878 | 1997 |
| UP1 M 1230 | 1230              | 124   | 154  | 241  | 388  | 547  | 671  | 836  | 918     | 1028 | 1125 | 1205 | 1306 | 1472 | 1665 | 1794    | 2045 | 2174 |
| UP1 M 1330 | 1330              | 134   | 166  | 261  | 419  | 592  | 725  | 904  | 993     | 1112 | 1217 | 1303 | 1413 | 1591 | 1800 | 1940    | 2211 | 2351 |



**Final voltage: 1.14 V/cell**

**Performance after prolonged float charge of fully charged cells – Available Amperes at + 20°C ± 5°C (+ 68°F ± 9°F)**

| Cell type  | C <sub>5</sub> Ah | Hours |      |      |      |      |      |      | Minutes |      |      |      |      |      |      | Seconds |      |      |
|------------|-------------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|------|------|
|            |                   | 10    | 8    | 5    | 3    | 2    | 1,5  | 1    | 45      | 30   | 20   | 15   | 10   | 5    | 1    | 30      | 5    | 1    |
| UP1 M 8    | 8                 | 0,80  | 0,99 | 1,53 | 2,38 | 3,01 | 3,44 | 4,25 | 4,76    | 5,36 | 6,12 | 6,56 | 7,34 | 8,50 | 10,4 | 11,5    | 14,3 | 15,5 |
| UP1 M 16   | 16                | 1,59  | 1,97 | 3,06 | 4,76 | 6,02 | 6,87 | 8,50 | 9,53    | 10,7 | 12,2 | 13,1 | 14,7 | 17,0 | 20,7 | 23,0    | 28,5 | 31,0 |
| UP1 M 24   | 24                | 2,39  | 2,96 | 4,59 | 7,14 | 9,03 | 10,3 | 12,8 | 14,3    | 16,1 | 18,4 | 19,7 | 22,0 | 25,5 | 31,1 | 34,4    | 42,8 | 46,5 |
| UP1 M 32   | 32                | 3,18  | 3,95 | 6,12 | 9,53 | 12,0 | 13,7 | 17,0 | 19,1    | 21,4 | 24,5 | 26,2 | 29,4 | 34,0 | 41,5 | 45,9    | 57,1 | 62,0 |
| UP1 M 40   | 40                | 3,98  | 4,94 | 7,66 | 11,9 | 15,0 | 17,2 | 21,3 | 23,8    | 26,8 | 30,6 | 32,8 | 36,7 | 42,5 | 51,8 | 57,4    | 71,3 | 77,5 |
| UP1 M 48   | 48                | 4,78  | 5,92 | 9,19 | 14,3 | 18,1 | 20,6 | 25,5 | 28,6    | 32,2 | 36,7 | 39,4 | 44,1 | 51,0 | 62,2 | 68,9    | 85,6 | 93,0 |
| UP1 M 65   | 65                | 6,47  | 8,02 | 12,4 | 19,3 | 24,4 | 27,9 | 34,5 | 38,7    | 43,6 | 49,7 | 53,3 | 59,7 | 69,1 | 84,2 | 93,3    | 116  | 126  |
| UP1 M 75   | 75                | 7,37  | 9,10 | 14,1 | 22,4 | 29,2 | 33,7 | 39,0 | 43,8    | 48,8 | 54,0 | 57,0 | 62,1 | 71,2 | 81,0 | 87,5    | 100  | 106  |
| UP1 M 100  | 100               | 9,82  | 12,1 | 18,8 | 29,8 | 38,9 | 44,9 | 52,0 | 58,4    | 65,0 | 72,0 | 76,0 | 82,8 | 95,0 | 108  | 117     | 134  | 141  |
| UP1 M 125  | 125               | 12,3  | 15,2 | 23,5 | 37,3 | 48,6 | 56,1 | 65,0 | 73,0    | 81,3 | 90,0 | 95,0 | 104  | 119  | 135  | 146     | 167  | 177  |
| UP1 M 150  | 150               | 14,7  | 18,2 | 28,2 | 44,7 | 58,4 | 67,3 | 78,0 | 87,6    | 97,5 | 108  | 114  | 124  | 142  | 162  | 175     | 201  | 212  |
| UP1 M 170  | 170               | 16,7  | 20,6 | 32,0 | 50,7 | 66,1 | 76,3 | 88,4 | 99,3    | 111  | 122  | 129  | 141  | 161  | 184  | 198     | 228  | 240  |
| UP1 M 195  | 195               | 19,1  | 23,7 | 36,7 | 58,1 | 75,9 | 87,5 | 101  | 114     | 127  | 140  | 148  | 161  | 185  | 211  | 227     | 261  | 276  |
| UP1 M 220  | 220               | 21,6  | 26,7 | 41,4 | 65,6 | 85,6 | 98,7 | 114  | 128     | 143  | 158  | 167  | 182  | 209  | 238  | 257     | 295  | 311  |
| UP1 M 245  | 245               | 24,1  | 29,7 | 46,1 | 73,0 | 95,3 | 110  | 127  | 143     | 159  | 176  | 186  | 203  | 233  | 265  | 286     | 328  | 346  |
| UP1 M 270  | 270               | 26,5  | 32,8 | 50,8 | 80,5 | 105  | 121  | 140  | 158     | 176  | 194  | 205  | 224  | 256  | 292  | 315     | 362  | 382  |
| UP1 M 295  | 295               | 29,0  | 35,8 | 55,5 | 87,9 | 115  | 132  | 153  | 172     | 192  | 212  | 224  | 244  | 280  | 319  | 344     | 395  | 417  |
| UP1 M 320  | 320               | 31,4  | 38,8 | 60,2 | 95,4 | 124  | 144  | 166  | 187     | 208  | 230  | 243  | 265  | 304  | 346  | 373     | 429  | 452  |
| UP1 M 345  | 345               | 33,9  | 41,9 | 64,9 | 103  | 134  | 155  | 179  | 201     | 224  | 248  | 262  | 286  | 328  | 373  | 402     | 462  | 488  |
| UP1 M 370  | 370               | 36,3  | 44,9 | 69,6 | 110  | 144  | 166  | 192  | 216     | 241  | 266  | 281  | 306  | 351  | 400  | 432     | 495  | 523  |
| UP1 M 395  | 395               | 38,8  | 47,9 | 74,3 | 118  | 154  | 177  | 205  | 231     | 257  | 284  | 300  | 327  | 375  | 427  | 461     | 529  | 558  |
| UP1 M 420  | 420               | 41,2  | 51,0 | 79,0 | 125  | 163  | 188  | 218  | 245     | 273  | 302  | 319  | 348  | 399  | 454  | 490     | 562  | 594  |
| UP1 M 445  | 445               | 43,7  | 54,0 | 83,7 | 133  | 173  | 200  | 231  | 260     | 289  | 320  | 338  | 368  | 423  | 481  | 519     | 596  | 629  |
| UP1 M 490  | 490               | 48,1  | 59,5 | 92,1 | 146  | 191  | 220  | 255  | 286     | 319  | 353  | 372  | 406  | 465  | 529  | 571     | 656  | 692  |
| UP1 M 540  | 540               | 53,0  | 65,5 | 102  | 161  | 210  | 242  | 281  | 315     | 351  | 389  | 410  | 447  | 513  | 583  | 630     | 723  | 763  |
| UP1 M 590  | 590               | 57,9  | 71,6 | 111  | 176  | 230  | 265  | 307  | 345     | 384  | 425  | 448  | 489  | 560  | 637  | 688     | 790  | 834  |
| UP1 M 640  | 640               | 62,8  | 77,7 | 120  | 191  | 249  | 287  | 333  | 374     | 416  | 461  | 486  | 530  | 608  | 691  | 746     | 857  | 904  |
| UP1 M 690  | 690               | 67,8  | 83,7 | 130  | 206  | 268  | 310  | 359  | 403     | 449  | 497  | 524  | 571  | 655  | 745  | 805     | 924  | 975  |
| UP1 M 740  | 740               | 72,7  | 89,8 | 139  | 221  | 288  | 332  | 385  | 432     | 481  | 533  | 562  | 613  | 703  | 799  | 863     | 991  | 1046 |
| UP1 M 785  | 785               | 77,1  | 95,3 | 148  | 234  | 305  | 352  | 408  | 458     | 510  | 565  | 597  | 650  | 745  | 848  | 916     | 1051 | 1109 |
| UP1 M 835  | 835               | 82,0  | 101  | 157  | 249  | 325  | 375  | 434  | 488     | 543  | 601  | 635  | 691  | 793  | 902  | 974     | 1118 | 1180 |
| UP1 M 885  | 885               | 86,9  | 107  | 166  | 264  | 344  | 397  | 460  | 517     | 575  | 637  | 673  | 733  | 840  | 956  | 1032    | 1185 | 1251 |
| UP1 M 935  | 935               | 91,8  | 113  | 176  | 279  | 364  | 420  | 486  | 546     | 608  | 673  | 711  | 774  | 888  | 1010 | 1091    | 1252 | 1321 |
| UP1 M 985  | 985               | 96,7  | 120  | 185  | 294  | 383  | 442  | 512  | 575     | 640  | 709  | 749  | 816  | 935  | 1064 | 1149    | 1319 | 1392 |
| UP1 M 1030 | 1030              | 101   | 125  | 194  | 307  | 401  | 462  | 536  | 602     | 670  | 742  | 783  | 853  | 978  | 1112 | 1201    | 1379 | 1456 |
| UP1 M 1130 | 1130              | 111   | 137  | 212  | 337  | 440  | 507  | 588  | 660     | 735  | 814  | 859  | 936  | 1073 | 1220 | 1318    | 1513 | 1597 |
| UP1 M 1230 | 1230              | 121   | 149  | 231  | 367  | 478  | 552  | 640  | 718     | 800  | 886  | 935  | 1018 | 1168 | 1328 | 1435    | 1647 | 1738 |
| UP1 M 1330 | 1330              | 131   | 161  | 250  | 396  | 517  | 597  | 692  | 777     | 865  | 958  | 1011 | 1101 | 1263 | 1436 | 1551    | 1781 | 1880 |

# Saft is committed to the highest standards of environmental stewardship

Saft is committed to protecting and preserving the environment. We are engaged in a sustained effort to use resources responsibly and to act in a way that clearly demonstrates our great respect for the planet.

As part of its environmental commitment, Saft gives priority to recycled raw materials over virgin raw materials, reduces its plants' air and water releases year after year, minimizes water usage, reduces fossil energy consumption and associated CO<sub>2</sub> emissions, and ensures

that its customers have recycling solutions for their spent batteries.

Regarding industrial batteries, Saft has set up a network of Bring Back Points (BBPs) which receive end-of-life nickel-based batteries from end users free of charge. These batteries are then shipped by these BBPs to our recycling facility in Sweden or to fully permitted recycling companies, in compliance with the laws governing trans-boundary waste shipments.

The recycling efficiency of these recyclers exceeds 75% of the nickel-based battery weight (a level which exceeds the mandated recycling efficiency of 65% applicable to lead-acid batteries), and recycled materials are reused as secondary raw material for industry.

This network of Bring Back Points comprises over 30 entities and provides services in all of our major markets in Europe, North America, Asia and Africa. The list of BBPs and their contact details are available on the Saft website.



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Document N° 21818-2-0119  
Edition: January 2019

Data in this document is subject to change without notice and becomes contractual only after written confirmation.

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Cap Interactif agency - 887  
Printed on PEFC paper

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RCS Nanterre 383 703 877

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