



Compact Three-Phase Modular UPS for Continuous Power

Xtreme Power M90C-6S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90C provides unity power factor output providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For 5kW or 8kW rack mount configurations, reference at www.xpcc.com/m90c-2s

PRODUCT SNAPSHOT

- › Six capacities: 5kW, 10kW, 15kW, 8kW, 16kW, 24kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA=kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 2 years electronics, 2 years battery warranty (USA and Canada)

FEATURES

Scalable—when power or runtime requirements change, modules can be added to increase capacity

Highest availability—system can be configured with redundant power and battery modules

Large LCD display—5.7" display provides graphic display including status and alarms

Optional receptacle panels—fully configurable output receptacle panels

Power module LCD—each power module includes LCD display, providing module detailed information and redundancy

Maintenance bypass—manually transfer critical loads from UPS power to utility power, enabling M90C maintenance

Reduce energy cost—best in class energy efficiency provides lowest energy consumption and heat output

MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/m90c-6s

| MODEL NUMBER | | M90C-6S5K | M90C-6S10K | M90C-6S15K | M90C-6S8K | M90C-6S16K | M90C-6S24K |
|---------------------------|------------------------------|---|------------|------------|-----------|------------|------------|
| CAPACITY | Power Rating | 5kVA/5kW | 10kVA/10kW | 15kVA/15kW | 8kVA/8kW | 16kVA/16kW | 24kVA/24kW |
| INPUT | Voltage/Frequency Nominal | 120/208V, 50/60Hz auto-sensing (3PH+N+G) | | | | | |
| | Voltage/Frequency | 120/208V, 50/60Hz; (3PH+N) | | | | | |
| OUTPUT | Voltage & Frequency | 120/208V 50/60Hz ± 0.1Hz; (3PH+N) | | | | | |
| | Efficiency / THD (full load) | Up to 98% ECO mode, 93% online mode / ≤2% (Linear load); ≤3% (Non linear load) | | | | | |
| | Overload Capacity | 100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms | | | | | |
| BATTERY SYSTEM | Nominal Voltage | +/-96Vdc or +/-120Vdc (+/-96Vdc default) | | | | | |
| | Max charging (adjustable) | 4A | 8A | 12A | 4A | 8A | 12A |
| MODULE DIMENSION & WEIGHT | Power Module | 16.3" W x 24" D x 5.2" H / 38 lbs | | | | | |
| | Battery Module | 16.3" W x 24" D x 5.2" H / 107 lbs | | | | | |
| SYSTEM ENCLOSURE | Dimensions & Weight | 17.4" W x 33.7" D x 45.5" H (UPS & BC7) // UPS=169 lbs / BC7=162 lbs | | | | | |
| | Maximum Capacity | 24kW | | | | | |
| | Enclosure Capacity | 6 slots including 3 universal slots and 3 battery only | | | | | |
| | Optional Battery Enclosure | 7 slots for additional battery modules | | | | | |
| | Output Connections | Terminal blocks and/or up to 4 receptacle panels | | | | | |
| ENVIRONMENT | Temperature | 0–40°C (32–104°F) | | | | | |
| | Altitude | 5,200 ft above sea level | | | | | |
| | Audible noise | < 58dBA at 1m | | | | | |
| APPROVALS | | UL-1778 (TUV), cUL, FCC A, RoHS, TAA compliant | | | | | |
| WARRANTY | | 2 year electronics, 2 year battery (USA and Canada) | | | | | |
| COMMUNICATIONS INTERFACE | | RS-232, USB, dry contacts, EPO, (2) intelligent slots for optional cards (Web/SNMP, Relay, Modbus) | | | | | |
| INCLUDED IN BOX | | User manual, USB cable, RS-232, ViewPower software, anchor brackets | | | | | |
| AVAILABLE OPTIONS | | L21-20P line cord (5kW), L21-30P line cord (8kW), receptacle panels (4 max), extended battery cabinet, 5 year extended warranty | | | | | |

*Depending on load level

BATTERY RUNTIMES

| Battery Modules | 6S UPS | | | | | 6S UPS + 1 BC7 | | | | | | | 6S UPS + 2 BC7 | | | | | | |
|-----------------|--------|-----|----|----|----|----------------|-----|-----|------|------|------|------|----------------|------|------|------|------|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | |
| 5kW | 12 | 28 | 46 | 66 | 86 | 106 | 121 | 133 | 151* | 170* | 190* | 209* | 228* | 248* | 268* | 288* | 308* | | |
| 10kW | N/A | 12 | 20 | 28 | 37 | 46 | 56 | 66 | 76 | 86 | 96 | 106 | 114 | 121 | 127 | 133 | 142* | | |
| 15kW | N/A | 7 | 12 | 17 | 23 | 28 | 34 | 40 | 46 | 53 | 59 | 66 | 72 | 79 | 86 | 93 | 100 | | |
| Battery Modules | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | |
| 8kW | 6 | 16 | 26 | 37 | 49 | 61 | 73 | 86 | 99* | 110* | 119* | 127* | 135* | 147* | 159* | 170* | 182* | | |
| 16kW | N/A | 6 | 11 | 16 | 21 | 26 | 32 | 37 | 43 | 49 | 55 | 61 | 67 | 73 | 79 | 86 | 92* | | |
| 24kW | N/A | N/A | 6 | 9 | 13 | 16 | 19 | 23 | 26 | 30 | 33 | 37 | 41 | 45 | 49 | 53 | 57 | | |

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

*Additional power module(s) required for battery recharge. Contact sales@xpcc.com for longer runtimes.

| Receptacle Panels | |
|-------------------|-----------------------------|
| A | (8) 5-20R |
| B | (2) C19 + (4) 5-20R |
| C | L6-30R + (2) C19 |
| D | L14-30R + (2) C19 |
| E | (2) L6-20R + (4) 5-20R |
| F | L6-20R + L6-30R + (4) 5-20R |
| G | L6-30R + (2) L6-20R |
| H | (3) L6-30R |
| I | (1) L21-20R and breaker |
| J | (1) L21-30R and breaker |

Maximum of 4 receptacle panels per enclosure

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Power Conversion®
Protect your business.

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www.xpcc.com

Maintenance Bypass
full wrap around
maintenance bypass
(located behind
hinged LCD display)

**5kW or 8kW Power
Modules**
includes rectifier,
charger, inverter and
static switch

Battery Module
includes 16 pieces of
12V 580W batteries



M90C-6S front view

**AC Terminal Blocks
& Breakers**



M90C-6S rear view

**Communication
Module**
provides dry contacts,
EPO, RS232,
USB and two slots
for Web/SNMP,
Modbus, or As400
cards

**Receptacle
Panels**
install
up to 4

**DC Terminal
Blocks**