



ALLIS ELECTRIC CO.,LTD.

# UNINTERRUPTIBLE POWER SUPPLY

High Quality, Efficient and Reliable Backup Power Solutions



## Allis Electric Co., Ltd.

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### ▲ North America

#### Impact Power, Inc.

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### ▲ South Africa

#### PHD Powerhouse Distributions (PTY) Ltd.

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## About

### Allis Electric Co., Ltd.



Allis was established on September 25th, 1968 as the expert manufacturer of heavy electrical apparatus in Taiwan. Its steady operation led to the development of equipments for power solutions, such as Transformers, Switchgear, Uninterruptible Power Supply, Switching Mode Rectifier, and PV Inverter. Started as a producer of Low-voltage Switchgear, Motor Control Centers, High/Low-voltage Integrated Star-up Panels, AC/DC Industrial Control Equipment, and Transmission and Distribution Apparatus, Allis has 50 years experience across IT, Telecommunication, Industry, Railway, and Utility field. Allis' products are designed to meet the standard requirements of renowned corporations around the world, such as Los Angeles Department of Water and Power, Toshiba, Taiwan Semiconductor Manufacturing Company, etc. A successful public offering in Taiwan Stock Exchange (TWSE) since 1994 has allowed Allis Electric to continue its steady growth.

To cope with some power problems of the electricity network, such as harmonic distortion, frequency variation, power surges, line noise, and unexpected blackout etc., Allis has 50 years professional experience to provide reliable high-quality power and power management solutions for its customers of industrial and commercial end-users. For applications in banks, data centers, telecommunication, high-tech semiconductor manufacturing, petrochemical equipment or other critical electrical equipment, customers have chosen Allis' Uninterruptible Power Supply (UPS) series from the capacity of 600VA to 1500kVA to ensure the required level of protection against down time resulting from power problems, which cost industrial billions of dollars.



- ◆ Harmony
- ◆ Innovation
- ◆ Responsibility

Since 1968



## Off-line (Standby)

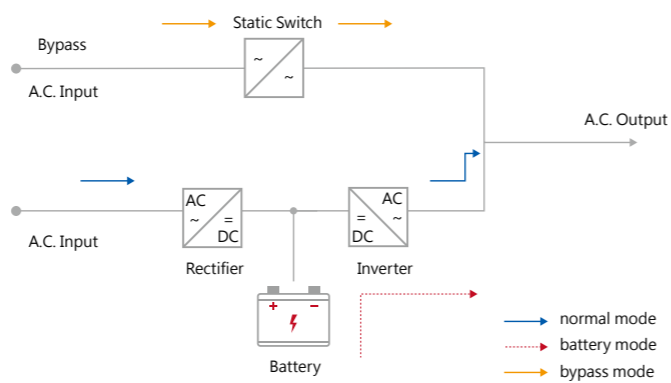
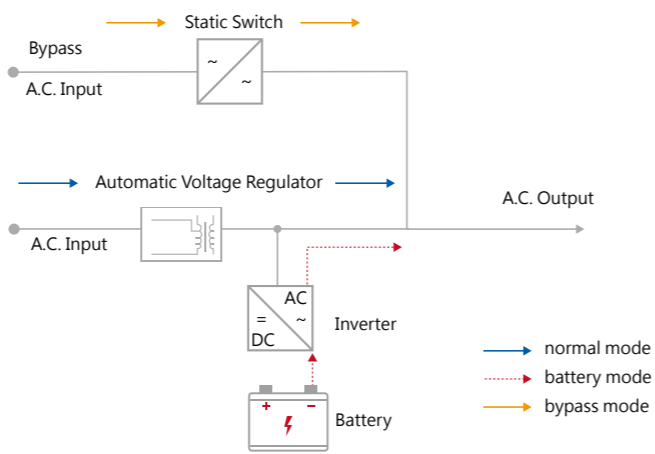
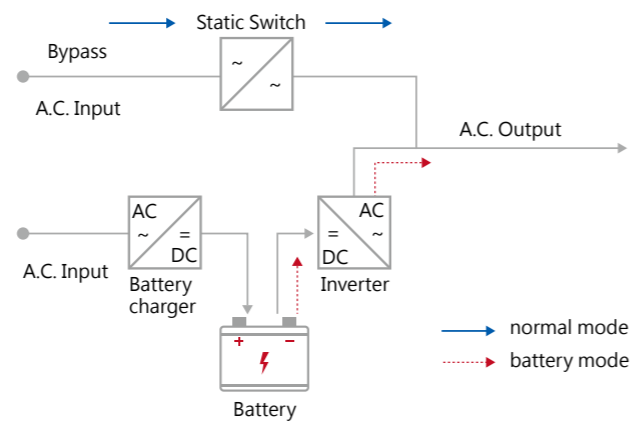
For Desktop computers

## Line Interactive

For Small business, Web, Departmental servers

## On-line

For sensitive equipment with zero transfer time to the battery



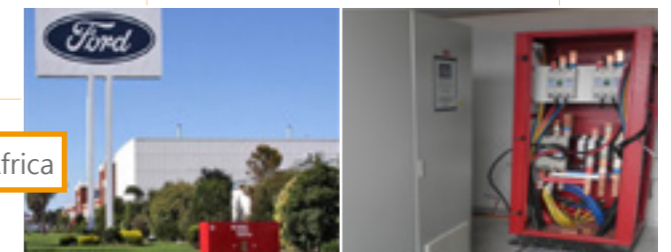
- ▲ Taiwan
- ▲ Philippines
- ▲ South Africa
- ▲ Middle East



Taiwan



Philippines

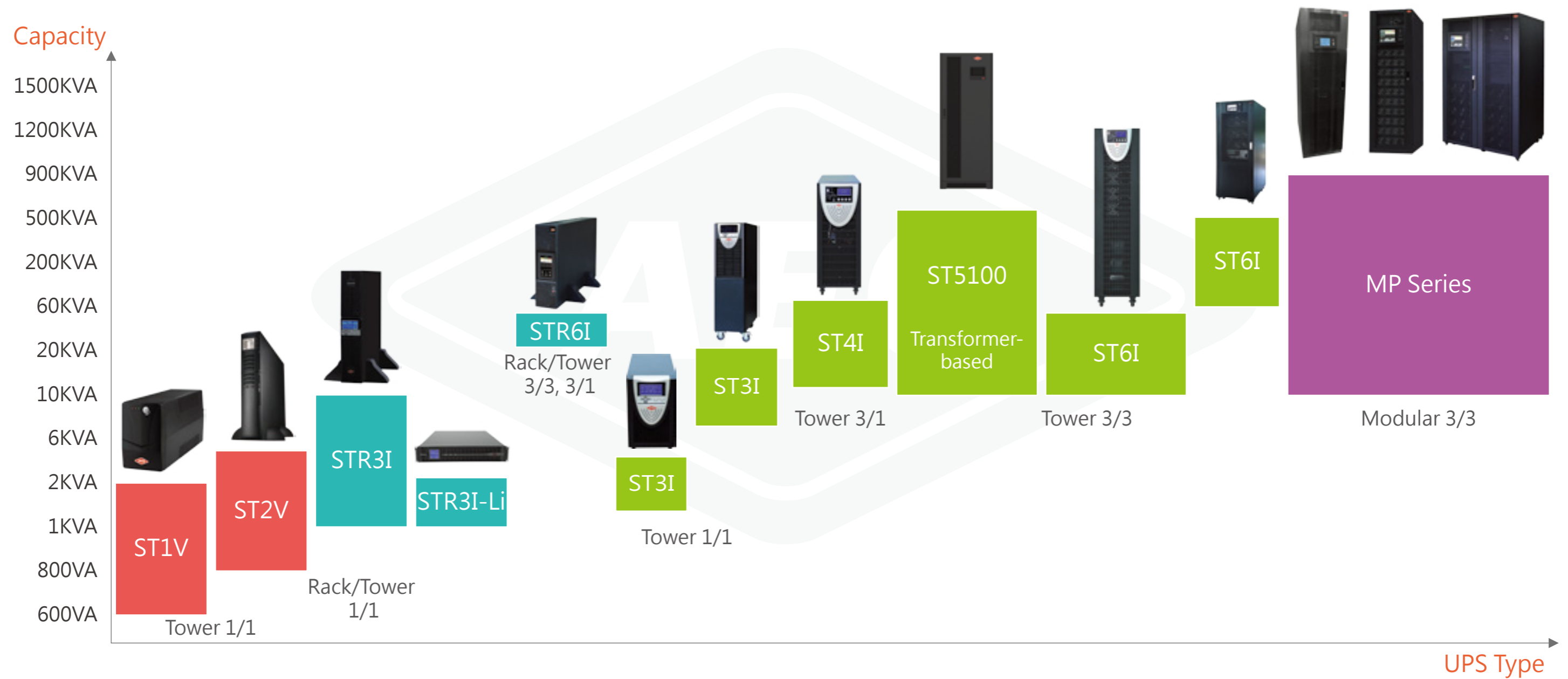


South Africa



Middle East

AEC products covering UPS type of line-interactive UPS and of On-line Modular UPS, Tower UPS and Rack UPS ranging from 600VA to 1500kVA for all applications.



## ST1V Series

▲ 600VA-2kVA



### Features :

- ◆ Compact size
- ◆ Excellent microprocessor control guarantees high reliability
- ◆ Boost and buck AVR for voltage stabilization
- ◆ Auto restart while AC is recovering
- ◆ Simulated sine wave
- ◆ Off-mode charging
- ◆ Cold start function
- ◆ Optional generator compatible

MODEL	ST1V 600	ST1V 800	ST1V 1K	ST1V 1.5K	ST1V 2K
Capacity	600 VA / 360 W	800 VA / 480 W	1000 VA / 600 W	1500 VA / 900 W	2000 VA / 1200 W
<b>Input</b>					
Voltage	110/120 VAC or 220/230/240 VAC				
Voltage Range	81-145 VAC / 162-290 VAC				
Frequency Range	60/50 Hz (auto sensing)				
<b>Output</b>					
Voltage	110/120 VAC or 220/230/240 VAC				
AC Voltage Regulation (Batt. Mode)	±10%				
Frequency Range (Batt. Mode)	60 Hz or 50 Hz ±1 Hz				
Transfer Time	Typical 2-6 ms				
Waveform (Batt. Mode)	Simulated Sine Wave				
<b>Battery</b>					
Battery Type & Number	12 V/7 Ah x 1	12 V/9 Ah x 1	12 V/7 Ah x 2	12 V/9 Ah x 2	12 V/9 Ah x 2
Typical Recharge Time	4 hours recover to 90% capacity		4-6 hours recover to 90% capacity		
<b>Indicators</b>					
LCD Model	Input Voltage, Output Voltage, Battery Capacity, load level and UPS status				
LED Model - AC Mode	Green lighting			Green lighting	
LED Model - Battery Mode	Green flashing			Yellow flashing	
LED Model - Fault	N/A			Red lighting	
<b>Alarm</b>					
Battery Mode	Sounding every 10 seconds				
Low Battery	Sounding every second				
Overload	Sounding every 0.5 second				
Fault	Continuously sounding				
<b>Others</b>					
LED Model - Dimension, D X W X H (mm)	279 x 101 x 142		320 x 130 x 182		
LED Model - Weight (kgs)	4.2	4.9	8.2	10.4	10.6
LCD Model - Dimension, D X W X H (mm)	300 x 101 x 142		320 x 130 x 182		
LCD Model - Weight (kgs)	4.4	5.0	8.2	10.4	10.6
<b>Environment</b>					
Humidity	0-90 % RH @ 0- 40° C (non-condensing)				
Noise Level	< 40dB				

\* Specification is subject to change without prior notice.

## ST2V Series

▲ 800VA-5kVA



### Features :

- ◆ Pure sine wave output
- ◆ High density UPS with output power factor 0.9
- ◆ User-friendly and easy-shift LCD display
- ◆ Rack/Tower design applies easily to install as a floor-standing tower or in 19-inch rack-mount bracket
- ◆ Programmable power management outlets for user control load segments
- ◆ ECO (Efficiency Corrective Optimizer) operation for energy saving
- ◆ EPO (Emergency power off function)
- ◆ Excellent microprocessor controller guarantees for fast response to power disturbances
- ◆ Boost and Buck AVR for voltage stabilization
- ◆ Hot-swappable battery design

MODEL	ST2V 800 VA	ST2V 1100 VA	ST2V 1500 VA	ST2V 2000 VA	ST2V 2500 VA	ST2V 3000 VA	ST2V 5000 VA	
Capacity	800 VA / 720 W	1100 VA / 990 W	1500 VA / 1350 W	2000 VA / 1800 W	2500 VA / 2250 W	3000 VA / 2700 W	5000 VA / 4500 W	
<b>Input</b>								
Nominal Voltage	110/115/120/127 VAC or 208/220/230/240 VAC						208/220/ 230/240 VAC	
Acceptable Voltage Range	81-152 VAC or 162-290 VAC						162-290 VAC	
Frequency Range	60/50 Hz (auto sensing)							
<b>Output</b>								
Output Voltage	110/115/120/127 VAC or 208/220/230/240 VAC						208/220/ 230/240 VAC	
Voltage Regulation (Batt. Mode)	±1.5% (before battery alarm)							
Frequency Range (Batt. Mode)	50 Hz or 60 Hz ± 1 Hz							
Current Crest Ratio	3:1							
Harmonic Distortion	2% max @ 100% linear load, 5% max @ 100% non-linear load (before low battery alarm)							
Transfer Time	Typical 2-6 ms, 10ms max.							
Waveform (Batt. Mode)	Pure Sine Wave							
<b>Efficiency</b>								
ECO Mode	97%							
Buck & Boost Mode	95%							
Battery Mode	Up to 90%	Up to 91%		Up to 92%				
<b>Battery</b>								
Battery Type & Number	12 V/7 Ah x 2	12 V/9 Ah x 2	12 V/7 Ah x 4	12 V/9 Ah x 4	12 V/7 Ah x 6	12 V/9 Ah x 6	12 V/10 Ah x 6	
Charging Current (max.)	1.5 A							
Charging Voltage	27.4 VDC ± 1%	54.8 VDC ± 1%		82.1 VDC ± 1%				
Typical Recharge Time	4 hours recover to 90% capacity							
<b>Indicators</b>								
LCD Display	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Low Battery							
<b>Alarm</b>								
Battery Mode	Sounding every 10 seconds							
Low Battery	Sounding every 2 seconds							
Overload	Sounding every second							
Fault	Continuously sounding							
<b>Others</b>								
Dimension, DXWXH (mm)	410 x 438 x 88		510 x 438 x 88		630 x 438 x 88			
Net Weight (kgs)	12.9	13.4	19.5	21.5	27.7	29.3	40	
<b>Environment</b>								
Operating Humidity	0-90 % RH @ 0- 40° C (non-condensing)							
Noise Level	Less than 45dB							
<b>Management</b>								
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux, and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

\* Specification is subject to change without prior notice.

\*\* Derate capacity to 80% of capacity when the output voltage is adjusted to 208V

## ST3I Series

Single Phase In / Single Phase Out

▲ 1k-3kVA



### Features :

- ◆ On-line double conversion UPS with full DSP control technology
- ◆ Input PF  $\geq 0.97$ , wide range of input voltage
- ◆ Output PF of 0.9, more powerful load capability
- ◆ LCD/LED display to monitor operation status easily
- ◆ Intelligent fan speed control
- ◆ Optional in-build output transformer for different application

MODEL	ST3I-1101S	ST3I-1101L	ST3I-1102S	ST3I-1102L	ST3I-1103S	ST3I-1103L
Capacity (kVA)	1kVA		2kVA		3kVA	
<b>Input</b>						
Phase	Single phase in, Single phase out					
Input Voltage	110VAC~288VAC					
	100% load@>176VAC ; 80% load@>154VAC ; 70% load@>132VAC ; 50% load@>110VAC					
Input Power Factor	$\geq 0.97$					
Input Frequency Range	40~70Hz					
<b>Output</b>						
Power Factor	0.9					
Output Voltage Waveform (Bat. Mode)	Pure Sine Wave					
Output Nominal voltage	220/230/240VAC					
Output Voltage regulation	$\pm 1\%$					
THDv	$\leq 2\%$ THD, linear load					
Output Frequency Synchronization range	$\pm 5\text{Hz}$ default					
Transfer Time ( Line mode to battery mode )	0					
Transfer Time ( Inverter to bypass )	2ms					
Crest Ratio	3:1					
Overload Capability	105%~130%: Transfer to bypass after 1 mins.					
	150%: Transfer to bypass after 30s					
<b>Efficiency</b>						
Line mode with battery full charged	87%		88%		90%	
ECO mode	94.0%		97.0%		97.0%	
<b>Battery</b>						
Battery Voltage	36VDC		72VDC		96VDC	
Battery Type	12VDC/7Ah	External	12VDC/7Ah	External	12VDC/7Ah	External
Quantity	3		6		8	
Back-up Time	6mins @ 80% load		6mins @ 80% load		5.5mins @ 80% load	
Max. Charging Current	1A	8A	1A	8A	1A	8A
<b>Others</b>						
Noise (1m away)	< 47dB		< 50dB		< 50dB	
Display	LED+LCD					
Communication Interface	RS232 / SNMP ( Optional )					
Dimension W × D × H (mm)	144*353*222		190*375*336		190*427*336	
Weight (KG)	12	6	21	10.5	25.6	11.5

\* Specification is subject to change without prior notice.

## ST3I Series

Single Phase In / Single Phase Out

▲ 6k-20kVA



(6k-10kVA)

### Features :

- ◆ Output PF=1
- ◆ High efficiency up to 95%
- ◆ 3 level of inverter technology
- ◆ Compact design of high power density
- ◆ Parallel up to 4 units
- ◆ Intelligent charging management, effectively improving the life time of battery

MODEL	ST3I-1106XS	ST3I-1110XS	ST3I-1115L	ST3I-1120L
	ST3I-1106XL	ST3I-1110XL		
Capacity (kVA)	6kVA	10kVA	15kVA	20kVA
<b>Input</b>				
Phase	Single phase in, Single phase out			
Input Voltage	110VAC~288VAC			
	100% load@>176VAC ; 90% load@>160VAC ; 80% load@>140VAC ; 60% load@>110VAC		100% load@>176VAC ; 90% load@>154VAC ; 80% load@>132VAC ; 65% load@>110VAC	
Input Power Factor	≥ 0.99		0.98	
Input Frequency Range	40~70Hz			
<b>Output</b>				
Power Factor	1		0.9	
Output Voltage Waveform	Pure Sine Wave			
Output Nominal voltage	220/230/240VAC			
Output Voltage regulation	± 1 %			
THDv	≤ 2% THD, linear load		≤ 1% THD, linear load	
Output Frequency Synchronization range	±5Hz default, settable		±3Hz default, settable	
Transfer Time ( Line mode to battery mode )	0ms			
Transfer Time ( Inverter to bypass )	0ms			
Crest Ratio	3:1			
Overload Capability	110% : Transfer to bypass after 10 mins ; 125% : for 1 min ; 150%: for 30s ( shut down the bypass after 1 min )		110%:Transfer to bypass after 10 mins ; 130%: for 1 min ; 150%: for 30s ( shut down the bypass after 1 min )	
<b>Efficiency</b>				
Line mode with battery full charged	95.0%		93.5%	
ECO mode	98.0%		98.0%	
<b>Battery</b>				
Battery Voltage	192VDC		192/240VDC	
Battery Type / Number	12VDC/7Ah × 16	12VDC/9Ah × 16	External	External
	External	External		
Back-up Time	3mins at 5 kW	2mins at 8 kW	External	External
	External	External		
Max. Charging Current	1A	1A	5A	5A
<b>Others</b>				
Noise (1m away)	<56dB		< 60dB	
Display	LED+LCD			
Communication Interface	RS232 ( Optional: SNMP, USB, Dry Contacts )			
Dimension W × D × H (mm)	190*426*705	190*485*705	250*562*650	250*562*710
	190*426*336	190*485*336		
Weight (KG)	56	60	27	34
	14	16		

\* Specification is subject to change without prior notice.



## ST4I Series

Three Phase In / Single Phase Out

▲ 10k-40kVA



### Features :

- ◆ Output PF=0.9
- ◆ Input PF  $\geq$  0.95, wide range of input voltage
- ◆ Intelligent fan speed control
- ◆ Parallel up to 3 units
- ◆ Full protection of overvoltage, circuit short and over temperature
- ◆ LCD display, monitoring all the operation status

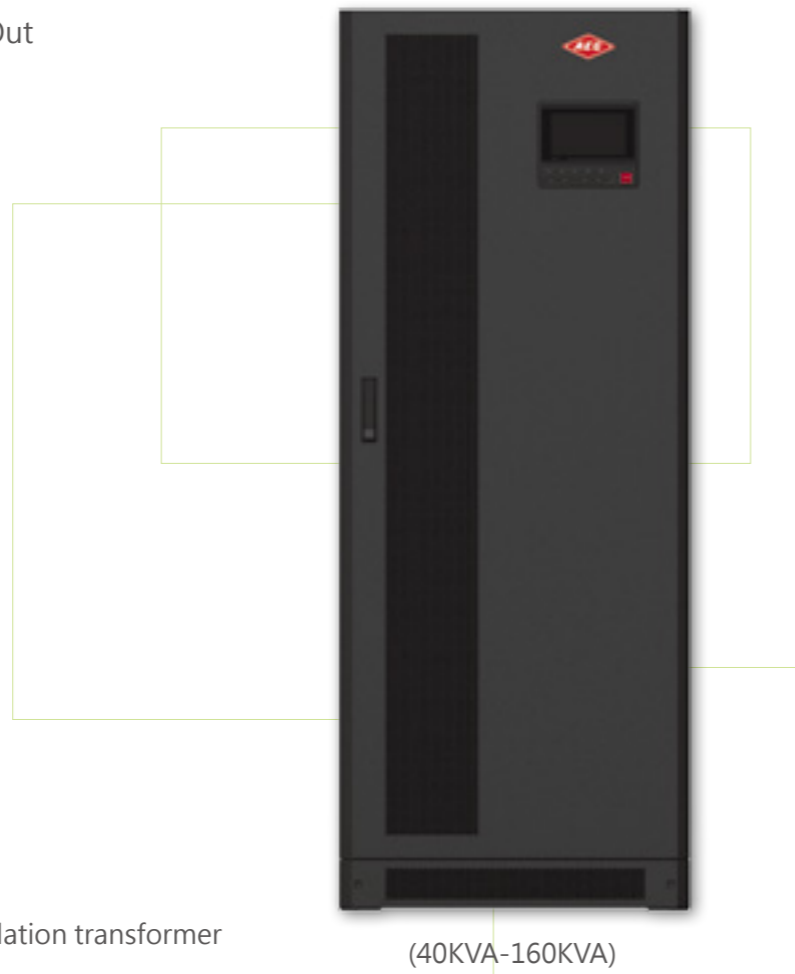
MODEL	ST4I-3110S	ST4I-3115L	ST4I-3120L	ST4I-3140L
	ST4I-3110L			
Capacity (kVA)	10kVA	15kVA	20kVA	40kVA
<b>Input</b>				
Phase	Three phase in (3 Phases + N + PE), Single phase out			
Input Voltage	50%~125% (380VAC/400VAC/415VAC)			
	100% load at 80%~125% ; 90% load at 70%~80% ; 80% load at 60%~70% ; 65% load at 50%~60%			
Input Power Factor	0.95		0.99	
Input Frequency Range	40~70Hz			
<b>Output</b>				
Power Factor	0.9			
Output Voltage Waveform	Pure Sine Wave			
Output Nominal voltage	220/230/240VAC			
Output Voltage regulation	$\pm$ 1 %			
THDv	$\leq$ 1% THD, linear load			
Output Frequency Synchronization range	$\pm$ 3Hz default, settable			
Transfer Time ( Line mode to battery mode )	0ms			
Transfer Time ( Inverter to bypass )	0ms			
Crest Ratio	3:1			
Overload Capability	110%: Transfer to bypass after 10 mins ; 130%: for 1 min ; 150%: for 30s ( shut down the bypass after 1 min)			
<b>Efficiency</b>				
Line mode with battery full charged	93.0%	93.5%	93.5%	95.0%
ECO mode	98.0%			
<b>Battery</b>				
Battery Voltage	192VDC		240VDC	
Battery Type / Number	12VDC/9Ah $\times$ 16	External	External	External
	External			
<b>Others</b>				
Noise (1m away)	<66dB		<65dB	
Display	LED+LCD			
Communication Interface	RS232 ( Optional: SNMP, USB, Dry Contacts )			RS232, RS485, USB, Dry Contacts (Optional: SNMP)
Dimension W $\times$ D $\times$ H (mm)	250*562*770	250*562*650	250*562*710	600*980*950
	250*562*650			
Weight (KG)	69	27	34	170
	25			

\* Specification is subject to change without prior notice.

## ST5100 Series

Three Phase In / Three Phase Out

▲ 10k-600kVA  
(Transformer-based)



### Features :

- ◆ IGBT inverter and output isolation transformer
- ◆ 3 phases UPS allow 100% unbalance load
- ◆ Fully DSP control, high reliability and performance
- ◆ HMI-touch screen display
- ◆ DC cold start function
- ◆ Advanced battery charging management
- ◆ Battery self-test function
- ◆ Intelligent fan speed control
- ◆ ECO mode and EPO function.
- ◆ Optional no-master-slave parallel technology
- ◆ The output isolation transformer provides high reliability to adapt different harsh industrial environments and protects the critical loads

MODEL	ST 5100-10	ST 5100-20	ST 5100-30	ST 5100-40	ST 5100-60	ST 5100-80	ST 5100-100	ST 5100-120	ST 5100-160	ST 5100-200	ST 5100-250	ST 5100-300	ST 5100-400	ST 5100-500	ST 5100-600			
Capacity (kVA)	10	20	30	40	60	80	100	120	160	200	250	300	400	500	600			
<b>Input</b>																		
Voltage (Vac)	380/400/415 ± 25%																	
Rectifier Frequency (Hz)	40~70																	
SYNC Frequency Tracking (Hz)	50/60 ± 10% (± 5% settable)																	
Phase	3 Phases + Neutral + Ground																	
<b>Output</b>																		
Power Factor	0.9 (0.8/1.0 optional)																	
Phase	3 Phases + Neutral + Ground																	
Voltage (Vac)	L-N : 220/230/240±1% ; L-L : 380/400/415±1%																	
Frequency (Hz)	50/60±0.2% (battery mode)																	
Waveform	Pure sine wave, THD ≤ 2% (linear load)																	
3 Phases 100% Load Unbalance Voltage Stability	≤ 2%, allow 100% unbalance																	
Overload	125% load for 10mins, 150% load for 1 min																	
<b>Battery</b>																		
Voltage (Vdc)	348 (360 settable)					384 (348 / 360 / 372 settable)												
BATT Type	External																	
Charger Current (A)	10 ~ 40A settable					10 ~ 100A settable												
<b>Others</b>																		
Maintenance Bypass	yes																	
Communication Interface	RS485/ Modbus / Dry contacts / SNMP (Optional)					RS232/ RS485/ Dry contacts / SNMP (Optional)												
Display	Touch screen + LED																	
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage , etc.																	
Noise (dB)	< 65					< 70												
Working Temperature (°C)	0~40°C																	
Relative Humidity	0 ~ 95%, No condensation																	
Dimension (W×D×H) mm	500×600×1180			500×800×1600			700×800×1800			1400×1000×1850			1600×1000×1850			3000×1000×1850		
Weight (kg)	230	260	300	400	450	520	600	650	825	1280	1568	1830	2050	4500				

\* Specification is subject to change without prior notice.

## ST6I Series

Three Phase In / Three Phase Out

▲ 10k-40kVA



### Features :

- ◆ High efficiency up to 96%
- ◆ High input PF > 0.99 ; Input current THDi < 4%
- ◆ Battery cold start
- ◆ Full protection with 4 circuit breakers
- ◆ Parallel up to 8 units
- ◆ Optional in-build output transformer for different application

MODEL	ST6I-3310XS	ST6I-3315XS	ST6I-3320XS	ST6I-3330XS	ST6I-3340XS
	ST6I-3310XL	ST6I-3315XL	ST6I-3320XL	ST6I-3330XL	ST6I-3340XL
Capacity (kVA)	10kVA	15kVA	20kVA	30kVA	40kVA
<b>Input</b>					
Phase	3 Phases + Neutral + Ground				
Rated Input Voltage	380/400/415VAC				
Input Voltage Range	304~478VAC (Line-Line),full load; 228~304VAC (Line-Line), load decrease linearly according to the min. phase voltage				
Input Frequency Range	40Hz ~ 70Hz				
Input Power Factor	>0.99				
Input Current THDi	< 4%		< 3%		
<b>Output</b>					
Voltage	380/400/415VAC				
Rated Frequency	50/60Hz				
Output Power Factor	1.0		0.9		
THDv	<1% linear load				
Overload Capability	110% for 60min; 125% for 10min; 150% for 1min; > 150% for 200ms				
Output Frequency Synchronized Range	±3Hz default, Settable				
<b>Battery</b>					
Battery Rate Voltage	240VDC				
Voltage precision	1%				
Charger Power	20% × System Power				
<b>Efficiency</b>					
Normal Operation	95.0%		95.0%		96.0%
Battery Operation	94.5%		95.0%		96.0%
<b>Others</b>					
Display	LED + LCD				
Communication Interface	Standard: RS232, RS485 ( Optional: SNMP, Dry Contacts )				
Operation Temperature	0 ~ 40 °C				
Protection Degree	IP20				
Relative Humidity	0 ~ 95% (Non condensing)				
Noise (1 meter)	< 55dB				
Dimension (W*D*H,mm)	250*840*715	250*840*715	350*738*1335	350*738*1335	500*840*1400
	250*660*530	250*660*530	250*680*770	250*680*770	250*836*770
Weight (Kg)	51.5	51.5	89	89	140
	31	31	50	52	61

\* Specification is subject to change without prior notice.

## ST6I Series

Three Phase In / Three Phase Out

▲ 60k-500kVA



### Features :

- ◆ High efficiency up to 96%
- ◆ High input PF > 0.99 ; Input current THDi < 3%
- ◆ Battery cold start
- ◆ Full protection with 4 circuit breakers
- ◆ Parallel up to 1500kVA
- ◆ Modular-like design, convenient for field maintenance
- ◆ Friendly operation interface with color touch screen

MODEL	ST6I-3360X	ST6I-33100X	ST6I-33200X	ST6I-33300X	ST6I-33400X	ST6I-33500X
Capacity (kVA)	60kVA	100kVA	200kVA	300kVA	400kVA	500kVA
<b>Input</b>						
Phase	3 Phases + Neutral + Ground					
Rated Input Voltage	380/400/415VAC					
Input Voltage Range	304~478VAC (Line-Line),full load; 228~304VAC(Line-Line), load decrease linearly according to the min. phase voltage					
Input Frequency Range	40Hz ~ 70Hz					
Input Power Factor	>0.99					
Input Current THDi	< 3% , linear load					
<b>Output</b>						
Voltage	380/400/415VAC					
Rated Frequency	50/60Hz					
Output Power Factor	0.9					
THDv	<1%, linear load					
Overload Capability	110% for 60min; 125% for 10min; 150% for 1min; > 150% for 200ms					
Output Frequency Synchronized Range	±3Hz default, Settable					
<b>Battery</b>						
Battery Rate Voltage	240VDC					
Voltage precision	1%					
Charger Power	20% × System Power					
<b>Efficiency</b>						
Normal Operation	95.5%				96.0%	
Battery Operation	95.0%				96.0%	
<b>Others</b>						
Display	LED + LCD					
Communication Interface	Standard: RS232, RS485, USB, Dry Contacts ( Optional: SNMP )					
Operation Temperature	0 ~ 40 °C					
Protection Degree	IP20					
Relative Humidity	0 ~ 95% (Non condensing)					
Noise (1 meter)	< 68dB			< 72dB		
Dimension (W*D*H,mm)	600*980*950	600*980*1150	650*960*1600	650*960*2000	1300*1100*2000	1300*1100*2000
Weight (Kg)	170	210	350	490	810	900

\* Specification is subject to change without prior notice.

## STR3I Series

Single Phase In / Single Phase Out

▲ 1k-10kVA



### Features :

(6K-10KVA)

- ◆ High efficiency up to 95%
- ◆ KVA=kW, Output PF=1
- ◆ Compact size 2U height
- ◆ Parallel up to 4 units
- ◆ Intelligent charging management improves the battery life time effectively

MODEL	STR3I-1101S	STR3I-1102S	STR3I-1103S	STR3I-1106S	STR3I-1110S
	STR3I-1101L	STR3I-1102L	STR3I-1103L	STR3I-1106L	STR3I-1110L
Capacity (kVA)	1kVA	2kVA	3kVA	6kVA	10kVA
<b>Input</b>					
Phase	Single phase in, single phase out				
Input Voltage Range	110VAC~288VAC				
	100% load@>176VAC ; 80% load@>154VAC ; 70% load@>132VAC ; 50% load@>110VAC			100% load@>176VAC ; 90% load@>160VAC ; 80% load@>140VAC ; 60% load@>110VAC	
Input Frequency Range	40Hz - 70Hz				
Input Power Factor	≥0.97			≥0.99	
<b>Output</b>					
Voltage	220/230/240VAC				
Rated Frequency	50/60Hz				
Output Power Factor	0.9			1	
THDv	≤2% THD, linear load			≤1% THD, linear load	
Overload Capability	105%~130%: Transfer to bypass after 1 min; 150%: Transfer to bypass after 30s			110%: for 10 mins ; 125% : for 1 min ; 150%: for 30s	
Output Frequency Synchronized Range	±5Hz default, settable				
<b>Battery</b>					
Battery Rate Voltage	36VDC	72VDC	96VDC	192VDC	
Battery Type / Number	12VDC/7Ah × 3	12VDC/7Ah × 6	12VDC/7Ah × 8	12VDC/7Ah × 16	12VDC/9Ah × 16
	External	External	External	External	External
<b>Efficiency</b>					
Normal Operation	87%	91%	90%	95%	
ECO mode	94%	97%			
<b>Others</b>					
Display	LED + LCD				
Communication Interface	RS232 ( Optional: RS485, SNMP, Dry Contacts )				
Operation Temperature	0~40°C				
Relative Humidity	0 ~ 95%, No condensation				
Noise (1 meter)	<50dB	<55dB	<55dB	<58dB	
Dimension (W*D*H,mm)	440*430*86	440*480*173	440*480*173	440*660*173	
	440*430*86	440*480*86	440*480*86	440*550*86	
Weight (Kg)	11.5	25	31	59	67
	7	8	9.5	17.5	20.5

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## STR3I – Li Series

Single Phase In / Single Phase Out  
The Innovative UPS with Internal Lithium-ion Battery

▲ 1k-3kVA



### Features :

- ◆ AC output and 48VDC output (long backup time model)
- ◆ Pure sine wave output
- ◆ Low broadband noise current
- ◆ Advanced digital control technique
- ◆ Comprehensive equipment protection
- ◆ Special Lithium battery charger
- ◆ DC cold start and automatic start at low voltage recover
- ◆ High AC/AC efficiency up to 93.0%
- ◆ High output power factor up to 1.0
- ◆ LCD display easily rotate for horizontal and vertical application

### Rotable LCD display



Horizontal Display



Vertical Display

MODEL	STR3I-2000-Li	STR3I-2200-Li	STR3I-3000-Li	STR3I-1000A-Li	STR3I-2000A-Li	STR3I-2200A-Li	STR3I-3000A-Li
Capacity (W/VA)	2kW/2kVA	2.2kW/2.2kVA	3kW/3kVA	1kW/1kVA	2kW/2kVA	2.2kW/2.2kVA	3kW/3kVA
<b>Input</b>							
Voltage (Vac)	120-295			60-148			
Frequency (Hz)	50/60± 10% (50/60Hz auto-sensing)						
Power Factor	≥0.99						
THDi	<5%						
<b>Output</b>							
AC/AC Efficiency	91.50%	91.60%	93%	91.70%	92.50%	92.60%	92.50%
Power Factor	1						
Voltage (Vac)	208/220/230/240±1% (settable)			110/120±1%			
Frequency (Hz)	50/60±0.1 (battery mode)						
THDv	<3%						
Transfer Time	0						
ECO Mode	Yes						
Overload	101%~115% for 1 min, 116%~133% for 1s, above 134% for 200ms						
<b>Lithium-ion Battery</b>							
Voltage (Vdc)	48	72	72	24	48	72	72
Backup Time (mins)	11	22	11	11	11	22	11
Charging Current (A) Max.	4						
<b>Others</b>							
Communication Interface	SNMP Adapter and USB Port ( Optional: RS485 and Dry Contacts )						
Output Outlet	(1)IEC C19 + (6)IEC C13		(8)5-15R	(6)5-20R	(6)5-20R	(4)5-20R + (1)L5-30R	
Display	LCD displays the running status of UPS						
Alarm	Battery low-voltage, mains abnormal, UPS fault, output overload						
Protection	Battery under-voltage protection, overload protection, short-circuit protection, over-temperature protection, input over-voltage protection						
Noise (dB)	< 55						
Working Temperature	The operating temperature is 0° C~60° C (Best operating temperature is 0~40° C, output power derated from 40° C~60° C )						
Relative Humidity	0 ~ 95%, No condensation						
Dimension (W×D×H) (mm)	438×570×87	438×615×87	438×570×87	438×420×87	438×570×87	438×615×87	438×570×87
Weight (kg)	13.6	19.1	16.1	8.9	13.6	19.1	17.1

\* IEC outlet is standard, other outlets are available and optional.

\* Specification is subject to change without prior notice.

## STR6I Series

Three Phase In / Three Phase Out

▲ 25kVA



### Features :

- ◆ Rock Design, compatible with 19-inch standard rack cabinet
- ◆ 5.5-inch touch color LCD with graphic display
- ◆ The system can be configured to 3/3 or 3/1
- ◆ Intelligent charging management improves the battery life time effectively
- ◆ Parallel up to 4 units

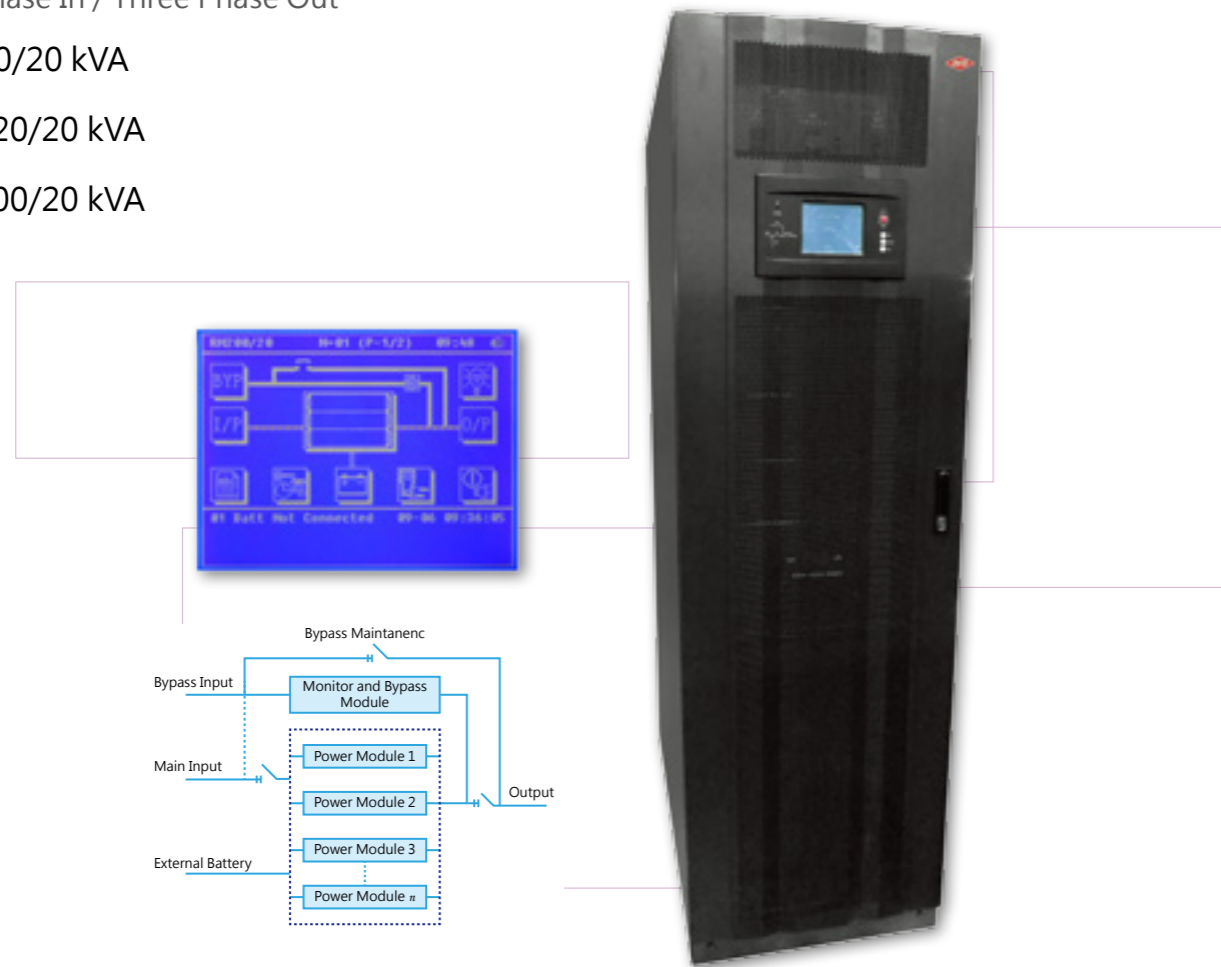
MODEL	STR6I-3325
Capacity (kVA)	25kVA
<b>Input</b>	
Phase	3 Phases + Neutral + Ground
Rated Input Voltage	380/400/415VAC
Rated Frequency	50/60Hz
Input Voltage Range	304~478Vac (line-line), full load 228V~304Vac (line-line), derate from 75% to 100% load
Input Frequency Range	40Hz ~ 70Hz
Input Power Factor	>0.99
Input Current THDi	<3% , linear Load
<b>Bypass Input</b>	
Rated Bypass Voltage	380/400/415VAC (line-line)
Rated Frequency	50/60Hz
Bypass Overload	110% Long time ; 125% for 5min ; 150% for 1min ; > 150% for 1s
<b>Output</b>	
Rated Inverter Voltage	380/400/415VAC (line-line)
Rated Frequency	50/60Hz
Output Power Factor	1
Output Voltage THDu	<1% , linear load
Inverter Overload	110% for 60mins; 125% for 10mins; 150% for 1min; >150% for 200ms
<b>Battery</b>	
Battery Rate Voltage	240VDC
Charging Capacity	max=20% *Output power
<b>Efficiency</b>	
Normal Operation	96.0%
Battery Operation	95.5%
<b>Others</b>	
Display	LED + LCD Touch Screen
Communication Interface	RS232, RS485, Dry contacts ( Optional: SNMP )
Operation Temperature	0 ~ 40 °C
Storage Temperature	-40 ~ 70 °C
Relative Humidity	0 ~ 95% Non condensing
Noise (1 meter)	< 65dB
Dimension (W*D*H,mm)	485*885*130
Weight (kg)	25

\* Specification is subject to change without prior notice.

## Modular UPS Series

Three Phase In / Three Phase Out

- ▲ MP60/20 kVA
- ▲ MP120/20 kVA
- ▲ MP200/20 kVA



### Features :

- ◆ 20kVA power module in 3 U height and less than 23kg
- ◆ Up to 20 power modules in parallel online hot-swappable
- ◆ N+X Redundancy and flexibility
- ◆ Independent charger for each module and the whole charging process be controlled intelligently
- ◆ Battery cold start
- ◆ Convenient for site installation by easy connection access
- ◆ High power density
- ◆ Integrated IGBT design with high reliability
- ◆ Isolated cooling air channel to prevent PCB boards from dust
- ◆ Optional in-built isolation transformer

MODEL	MP60/20	MP120/20	MP200/20
Capacity	60kVA/54kW	120kVA/108kW	200kVA/180kW
Power Module	20kVA		
<b>Input</b>			
Phase	3 Phases + Neutral + Ground		
Rated Input Voltage	380/400/415VAC		
Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decrease linearly according to the min. phase voltage		
Input Frequency Range	40Hz ~ 70Hz		
Input Power Factor	>0.99		
Input Current THDi	<3% , linear load		
<b>Output</b>			
Rated Voltage	380/400/415VAC (line-line)		
Rated Frequency	50/60Hz		
Output Power Factor	0.9		
Voltage Regulation	1% for balance load; 1.5% for unbalance load		
Output Voltage THDu	<1% (linear load)		
Overload Capability	110% for 60mins; 125% for 10mins; 150% for 1min; > 150% for 200ms		
<b>Battery</b>			
Battery Rate Voltage	240VDC		
Charging Capacity	max=20% *Output power		
<b>Efficiency</b>			
Normal Operation	95%		
ECO Opetation	99%		
<b>Others</b>			
Display	LCD+LED, Touch Screen, Keyboard		
Communication Interface	Standard:RS232, RS485, Dry Contacts; Optional : SNMP		
Operation Temperature	0 ~ 40 °C		
Storage Temperature	-40 ~ 70 °C		
Protection Degree	IP20		
Relative Humidity	0 ~ 95% (Non condensing)		
Noise (1 meter)	<55dB		
Power Module Dimension (W*D*H,mm)	440*590*134		
Power Module Weight (kg)	22		
Cabinet Dimension (W*D*H,mm)	600*900*1100	600*900*1600	600*900*2000
Cabinet Weight (kg)	105	145	179

\* Specification is subject to change without prior notice.



## Modular UPS Series

Three Phase In / Three Phase Out

- ▲ MP180/30 kVA
- ▲ MP300/30 kVA
- ▲ MP600/30 kVA



MODEL	MP180/30	MP300/30	MP600/30
Capacity	180kVA/162kW	300kVA/270kW	600kVA/540kW
Power Module	30kVA		
<b>Input</b>			
Phase	3 Phases + Neutral + Ground		
Rated Input Voltage	380/400/415VAC		
Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decrease linearly according to the min. phase voltage		
Input Frequency Range	40Hz ~ 70Hz		
Input Power Factor	>0.99		
Input Current THDi	<3% , linear load		
<b>Output</b>			
Rated Voltage	380/400/415VAC (line-line)		
Rated Frequency	50/60Hz		
Output Power Factor	0.9		
Voltage Regulation	1% for balance load; 1.5% for unbalance load		
Output Voltage THDu	<1% , linear load		
Overload Capability	110% for 60mins; 125% for 10mins; 150% for 1min; > 150% for 200ms		
<b>Battery</b>			
Battery Rate Voltage	240VDC		
Charging Capacity	max=20% *Output power		
<b>Efficiency</b>			
Normal Operation	95.5%		
ECO Operation	99%		
<b>Others</b>			
Display	LCD color Touch Screen, LED, Keyboard		
Communication Interface	Standard:RS232, RS485, USB,Dry Contacts ; Optional : SNMP		
Operation Temperature	0 ~ 40 °C		
Storage Temperature	-40 ~ 70 °C		
Relative Humidity	0 ~ 95% (Non condensing)		
Noise (1 meter)	< 65 dB	< 72 dB	
Power Module Dimension (W*D*H,mm)	460*790*134		
Power Module Weight (kg)	34		
Cabinet Dimension (W*D*H,mm)	600*1100*1600	600*1100*2000	2000*1050*2000
Cabinet Weight (kg)	165	220	660

\* Specification is subject to change without prior notice.

### Features :

- ◆ 30kVA power module in 3 U height and less than 34kg
- ◆ Independent LCD for power module
- ◆ 10.4" touch color LCD with graphic display
- ◆ High efficiency up to 95%
- ◆ Smart sleep function that intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

## Modular UPS Series

Three Phase In / Three Phase Out

- ▲ MP100/50 kVA
- ▲ MP200/50 kVA
- ▲ MP300/50 kVA
- ▲ MP500/50 kVA



MODEL	MP100/50	MP200/50	MP300/50	MP500/50
Capacity	100kVA/90kW	200kVA/180kW	300kVA/270kW	500kVA/450kW
Power Module	50kVA			
<b>Input</b>				
Phase	3 Phases + Neutral + Ground			
Rated Input Voltage	380/400/415VAC			
Input Voltage Range	304~478Vac (line-line), 100% load; 228V~304Vac (line-line), load decrease linearly according to the min. phase voltage			
Input Frequency Range	40Hz ~ 70Hz			
Input Power Factor	>0.99			
Input Current THDi	<3%, linear load			
<b>Output</b>				
Rated Voltage	380/400/415VAC (line-line)			
Rated Frequency	50/60Hz			
Output Power Factor	0.9			
Voltage Precision	±2%			
Output Voltage THDu	<1%, linear load			
Overload Capability	110% for 60mins; 125% for 10mins; 150% for 1min; >150% for 200ms			
<b>Battery</b>				
Battery Rate Voltage	240VDC			
Charging Capacity	max=20% *Output power			
<b>Efficiency</b>				
Normal Operation	96%			
Battery Operation	96%			
<b>Others</b>				
Display	10.4" Color Touch Screen LCD+LED, Keyboard			
Communication Interface	Standard:RS232, RS485, USB,Dry Contacts ; Optional : SNMP			
Operation Temperature	0 ~ 40 °C			
Storage Temperature	-40 ~ 70 °C			
Relative Humidity	0 ~ 95% (Non condensing)			
Noise (1 meter)	< 72dB			
Power Module Dimension (W*D*H,mm)	510*700*178			
Power Module Weight (kg)	45			
Cabinet Dimension (W*D*H,mm)	600*980*1150	650*960*1600	650*960*2000	1300*1100*2000
Cabinet Weight (kg)	210	350	490	900

\* Specification is subject to change without prior notice.

### Features :

- ◆ 10.4" touch color LCD with graphic display and independent LCD for each power module
- ◆ 50kVA power module in 4 U height that easy for 500kVA capacity in one cabinet
- ◆ 3 units in parallel for a capacity up to 1500kVA
- ◆ High efficiency up to 96%
- ◆ Smart sleep function that intelligently shutdown some power modules to increase total load rate, achieving higher efficiency



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