

# 7000 Series Rack Mount Online UPS

## Scalable online UPS, up to 10 in parallel 6kVA~100kVA



7000 Series is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing four screws on the connector box, power module can be easily removed out from cabinet without disconnecting any wires. No need for extra cabinet chassis. 7000 Series can be installed with servers in the same cabinet. Besides, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. Compared to general parallel system, multiple 7000 Series Online UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.

- High efficiency online double conversion technology
- High scalability
- Unity output power factor
- Modular design lowers MTTR
- Highly reliable operation with redundant power supply in STS
- User-adjustable charging current
- Ease of installation and maintenance
- Flexible battery configuration adapts different applications
- High overload capability
- Graphic 5.7" LCD design for easy management
- N+1 or N+X parallel redundancy for power guarantee
- Optional 10" touch LCD panel

# 7000 Series Rack Mount Online UPS



7000 Series 2U



7000 Series 3U



- **True double-conversion**

7000 Series is applied online double conversion technology to effectively insulate against network disturbances and enable higher load uptime.

- **Modular connector box with hot-swappable design for ease of power expansion, installation and maintenance**

7000 Series is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing four screws on the connector box, power module can be easily removed out from cabinet without disconnecting all wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.



- **Standard 19" form factor with tower / rack convertible design**

Designed for easy adjustment, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. 19" form factor suits for the standard rack so it optimizes cost expense to meet the power demands.



- **Parallel operation with common battery**

Compared to general parallel system, multiple 7000 Series UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.

- **Adjustable battery design**

The number of connected batteries can be adjusted flexibly based on different power demands.

- **DSP technology guarantees high reliability**

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

- **Output power factor 1.0**

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

- **50Hz/60Hz frequency converter mode**

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

- **ECO mode operation for energy saving**

ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

- **Emergency power off function (EPO)**

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

- **Generator compatible**

This UPS can accept generator as power source and still convert perfect power to the connected loads.

- **Customized system (only available for 7000 Series 3U)**

Multiple 7000 Series UPSs can easily form a complete system based on customer's demand. Please contact sales directly for the details.



	17U		
Cabinet Height	17U		
Number of power module	4	2	1
Number of battery module	0	2	3

\*This customized system will be embedded 1U centralized communication unit.

## 7000 Series Rack Mount Online UPS Selection Guide (2U)

MODEL	7000 3/3-6K	7000 3/1-6K	7000 1/1-6K	7000 2/2-3K LV
<b>PHASE</b>	3 phase in / 3 phase out	3 phase in / 1 phase out	1 phase in / 1 phase out	2 phase in / 2 phase out
<b>CAPACITY</b>	6000 VA / 6000 W	6000 VA / 6000 W	6000 VA / 6000 W	3000VA / 3000W
<b>PARALLEL CAPABILITY</b>	10	10	10	10
<b>INPUT</b>				
Nominal Voltage	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	208VAC/220VAC/230VAC/240VAC (1Ph+N+PE)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE)
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load		110-300 VAC @ 50% load 176-276 VAC @ 100% load	88-155 VAC (L-N) 152- 269 VAC (L-L)
Frequency Range	40 Hz ~ 70 Hz			
Power Factor	≥ 0.99 @ 100% load			
THDi	< 4% @ full linear load			
<b>OUTPUT</b>				
Output Voltage	360VAC/380VAC/400VAC/415VAC (3Ph+N)	208*/220/230/240VAC(L+N)	208*/220/230/240VAC(L+N)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N)
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46-54Hz or 56-64Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	zero		
	Inverter to Bypass	zero		
Waveform (Batt. Mode)	Pure Sinewave			
<b>EFFICIENCY</b>				
AC Mode	94%	94%	93.5%	91%
ECO Mode	97%	97%	97%	97%
Battery Mode	At Full Load	93%	92.5%	91%
	Peak	93.5%	93%	92.5%
<b>BATTERY CHARGER</b>				
Battery Voltage	± 12V / 9 Ah			
Battery Numbers	12 pcs x 2	12 pcs x 2	12 pcs x 2	6 pcs x 2
Nominal Voltage	+/-144V (12V x 24 pcs)	+/-144V (12V x 24 pcs)	+/-144V (12V x 24 pcs)	+/-72V (12V x 12 pcs)
Charging Voltage	± 164V	± 164V	± 164V	± 82V
Typical Recharging Time	9 hours recover to 90% capacity			
Charging Current	± 4A			
<b>INDICATORS</b>				
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
<b>PHYSICAL</b>				
Dimension, D x W x H(mm)	678 x 418 x 88 [2U]			
Net Weight (kgs)	17	17	17	14
<b>ENVIRONMENT</b>				
Operating Humidity	0-95 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
<b>MANAGEMENT</b>				
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

\*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.  
Product specifications are subject to change without further notice

## 7000 Series Rack Mount Online UPS Selection Guide (3U)

MODEL	7000 3/3-10K	7000 3/1-10K	7000 1/1-10K	7000 2/2-6K LV	7000 3/3-10K LV	
PHASE	3 phase in / 3 phase out	3 phase in / 1 phase out	1 phase in / 1 phase out	2 phase in / 2 phase out	3 phase in / 3 phase out	
CAPACITY	10000 VA / 10000 W	10000 VA / 10000 W	10000 VA / 10000 W	6000 VA / 6000 W	10000 VA / 8000 W	
PARALLEL CAPABILITY	10	10	10	10	10	
<b>INPUT</b>						
Nominal Voltage	3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)	3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)	208VAC/220VAC/230VAC /240VAC (1Ph+N+PE)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE)	3 x 173VAC/190VAC/200VAC /208/220VAC (3Ph+N+PE)	
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load		110-300 VAC @ 50% load 176-276 VAC @ 100% load	88-155 VAC (L-N) 152- 269 VAC (L-L)	88-155 VAC (L-N) 152- 269 VAC (L-L)	
Frequency Range	40 Hz ~ 70 Hz					
Power Factor	≥ 0.99 @ 100% load					
THDi	< 4% @ full linear load					
<b>OUTPUT</b>						
Output Voltage	360VAC/380VAC/400VAC/ 415VAC (3Ph+N)	208*/220/230/240VAC (L+N)	208*/220/230/240VAC (L+N)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N)	173VAC/190VAC/200VAC/ 208VAC/220VAC (3Ph+N)	
AC Voltage Regulation (Batt. Mode)	± 1%					
Frequency Range (Synchronized Range)	46-54Hz or 56-64Hz					
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)					
Transfer Time	AC Mode to Batt. Mode	zero				
	Inverter to Bypass	zero				
Waveform (Batt. Mode)	Pure Sinewave					
<b>EFFICIENCY</b>						
AC Mode	94%	94%	93.5%	91%	92%	
ECO Mode	97%	97%	97%	97%	97%	
Battery Mode	At Full Load	93%	92.5%	92%	91%	92%
	Peak	93.5%	93%	92.5%	91.5%	92%
<b>BATTERY CHARGER</b>						
Battery Voltage	± 12V / 9 Ah					
Battery Numbers	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	8-10pcs (adjustable) x 2	8-10pcs (adjustable) x 2	
Nominal Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-96V (12V x 16 pcs)	+/-96V (12V x 16 pcs)	
Maximum Voltage	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/-120V (12V x 20pcs)	+/-120V (12V x 20pcs)	
Minimum Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-96V (12V x 16pcs)	+/-96V (12V x 16pcs)	
Charging Voltage	± 218V	± 218V	± 218V	± 109V	± 109V	
Typical Recharging Time	9 hours recover to 90% capacity					
Charging Current	± 4A					
<b>INDICATORS</b>						
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
<b>PHYSICAL</b>						
Dimension, D x W x H(mm)	678 x 418 x 129 [3U]					
Net Weight (kgs)	20.5	20.5	20.5	17.6	21	
<b>ENVIRONMENT</b>						
Operating Humidity	0-95 % RH @ 0- 40°C (non-condensing)					
Noise Level	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter	Less than 58dB @ 1 Meter	
<b>MANAGEMENT</b>						
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC					
Optional SNMP	Power management from SNMP manager and web browser					

\*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.  
Product specifications are subject to change without further notice