

Ascend 10KW - 100KW Modular UPS



Ascend

- **True double-conversion**

Ascend 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**

Ascend 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.

- **Rack independency**

No need for extra cabinet chassis. Ascend can be installed with servers in the same cabinet. Besides, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS.

- **Parallel operation with common battery** Compared to general parallel system, multiple Ascend UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance. The maximum parallel operation is up to 10 units.

- **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**

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

CONTACT US

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Ascend Technical Specifications

MODEL		Ascend 3/3-10K	Ascend 3/1-10K	Ascend 1/1-10K
PHASE		3 phase in / 3 phase out	3 phase in / 1 phase out	1 phase in / 1 phase out
CAPACITY		10000 VA / 10000 W	10000 VA / 10000 W	10000 VA / 10000 W
PARALLEL CAPABILITY		10	10	10
INPUT				
Nominal Voltage		3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)	3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)	208VAC/220VAC/2 30VAC/240VAC (1Ph+N+PE)
Voltage Range		190-520VAC(3-phase) @ 50% load 305-478VAC(3-phase)@100% load	190-520VAC(3-phase)@50% load 305-478VAC (3-phase)@ 00% load	110-300 VAC @ 50% load 176-276 VAC @ 100% load
Frequency Range		40 Hz ~ 70 Hz		
Power Factor		≥ 0.99 @ 100% load		
THDi		< 4% @ full linear load		
OUTPUT				
Output Voltage		360VAC/380VAC/400VAC/415VAC (3Ph+N)	208*/220/230/240VAC (L+N)	208*/220/230/240VAC (L+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)	≤2% THD (Linear Load) ; ≤3% THD (Non-linear Load)	≤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		
EFFICIENCY				
AC Mode		94%	94%	93.5%
ECO Mode		97%	97%	97%
Battery Mode	At Full Load	93%	92.5%	92%
	Peak	93.5%	93%	92.5%
BATTERY CHARGER				
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
Nominal Voltage		+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Maximum Voltage		+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)
Minimum Voltage		+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Charging Voltage		± 218V	± 218V	± 218V
Typical Recharging Time		9 hours recover to 90% capacity		
Charging Current		+/- 4A		
INDICATORS				
LCD/LED Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
PHYSICAL				
Dimension, D x W x H(mm)		678 x 418 x 132 [3U]		
Net Weight (kgs)		20.5	20.5	20.5
ENVIRONMENT				
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
MANAGEMENT				
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

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