

# MODUPS

## 10KW - 100KW MODULAR

VIVATK

### Features

\* **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. Arena 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 equipment's.

\* **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.



 Anushri Systech Private Limited

An ISO 9001:2008 Certified Company

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# Technical Specification



MODEL	Ascend3/3-10k	Ascend 3/1-10k	Ascend 1/1-10k
PHASES	3 phase in /3 phase out	3 phase in/1 phase out	1 phase in/1 phase out
CAPACITY	10000VA/10000W	10000VA/10000W	10000VA/10000W
PARALLEL CAPABILITY	10	10	10
<b>INPUT</b>			
Nominal Voltage	3×360VAC/380VAC/400VAC/415VAC(3Ph+N+PE)	3×360VAC/380VAC/400VAC/415VAC(3Ph+N+PE)	208VAC/220VAC/230VAC/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)@100% load	110-300VAC @50% load 176-276 @100% load
Frequency Range	40Hz-70Hz		
Power Factor	≥0.99@100% load		
THDi	≥0.99@100% load		
<b>OUTPUT</b>			
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 70Hz		
Frequency Range (Balt Mode)	50Hz±0.1Hz or 60Hz±0.1Hz		
Current Crest Ratio	3:1 (max)		
Harmonic Distortion	≤2% THD (Linear load );≤ 35 THD (Non- linear load)	≤2% THD (Linear load );≤ 35 THD (Non- linear load)	≤2% THD (Linear load );≤ 35 THD (Non- linear load)
Transfer Time	Zero		
Waveform (Balt Mode)	Pure sinewave		
<b>EFFICIENCY</b>			
AC Mode	94%	94%	94%
ECO Mode	97%	97%	97%
Battery Mode	93%	92.50%	92%
<b>BATTERY CHARGER</b>			
Battery Voltage	±12V/9Ah		
Battery Number	16~20 pcs (adjustable ) ×2	16~20 pcs (adjustable ) ×2	16~20 pcs (adjustable ) ×2
Nominal Voltage	192V (12V× 32pcs )	192V (12V× 32pcs )	192V (12V× 32pcs )
Maximum Voltage	240V (12V× 32pcs )	240V (12V× 32pcs )	240V (12V× 40pcs )
Minimum Voltage	192V (12V× 32pcs )	192V (12V× 32pcs )	192V (12V× 32pcs )
Charging Voltage	±218V	±218V	±218V
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 time, and fault conditions		
<b>PHYSICAL</b>			
Dimension DxWxH(mm)	678×418×132 (3u)		
Net Weight (kgs)	20.5	20.5	20.5
<b>ENVIRONMENT</b>			
Operating Humidity	0-95 % RH @ 0-40 Degree C (non- conducting)		
Noise level	less than 55dB @ 1 Meter	less than 55dB @ 1 Meter	less than 55dB @ 1 Meter
<b>MANAGEMENT</b>			
Smart RS-232/USB	supports windows R 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

\* All specifications Subject to change without notice



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