



RAPTOR-6K/RAPTOR-10K

Overview

The high-quality online double-conversion UPS that offers the ideal power protection for heavily loaded equipment

Designed for office and data center applications, the RAPTOR Series adopts double-conversion topology to provide seamless Pure Sine Wave output. The products are compatible with generators to prolong power continuity. The UPSs also adopt ECO Mode to help save on energy costs, Smart Battery Management (SBM) to extend battery lifespan, and multifunction LCD readout to display precise information. The power management software allows users to easily control and monitor the UPS system.

Features

- Online double conversion with full digital control
- Wide input voltage range: 80~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Diagnostics : Full system self test on power up
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card/SNMP card optional)
- Transfer time : Line mode to Battery mode is 0ms, and Bypass mode to Line mode is 0ms
- Auto transfer : Automatically re-transfer to Inverter mode after overload is cleared, or line is recovered
- Bypass Output without turning on : Yes
- Short Circuit Protection Cut off output within 100ms in Line mode & Battery mode; Input Breaker in Bypass mode
- Design with maintenance switch
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Auto transfer to bypass mode when UPS is overloaded, failed, low battery ...

Application

Raptor 6~10kVA, Tower models

application areas

- Data Network: Mid - range Servers (Windows and Linux), Wi-Fi Applications & Data networks
- Small Data Center Rooms
- Voice Networks: Cellular Sites, Voice Over IP (VOIP), Very small Aperture Terminals (VSAT) PBX And IT-enabled PBX Automation industries
- Process Automation Equipment: Programmable Logic Controllers (PLS) and Cash Machines (ATM)

Advanced protection for :

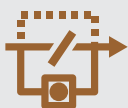
- Infrastructure
- Industrial and Medical IT
- Networking
- Storage
- Telecom

Angustos

Angustos was founded in 2000 and is now regarded as one of the foremost manufacturers of Uninterruptible Power Supply, IT equipments,...

For more than 20 years our customers have been convinced by our core competencies in extending, switching and distributing standardised computer signals.

We are committed to established international standards. We can provide customers with complete Datacenter & Power solutions as well as OEM/ODM services. We can cover even from medium to small business, factory & industrial, military & government, home office & personal use.



Online (Double Conversion) UPS Topology



Extended Battery Module (EBM)



Zero Transfer Time



Remote Management Capability



Smart Battery Management



UPS Parallel Expansion



ECO Mode



Maintenance Bypass Switch

SPECIFICATION



Model Name	RAPTOR-6K		RAPTOR-10K	
Power Rating	6 kVA / 5.4 kW		10 kVA / 9 kW	
GENERAL				
UPS Topology	Online Double Conversion			
ECO Technology	Online ECO Mode Efficiency > 98%			
Parallel Expansion	Max. Units up to 4			
Active PFC Compatibility	Yes			
INPUT				
Nominal Voltage	208/220/230/240Vac ±10%, Single Phasewith ground (2W + G)			
Input Voltage Range	110~300Vac@100% of the unit capacity (80~300Vac @ 50% of the unit capacity)			
Rated Input Current (A)	27.3A		45.5A	
Power factor	≥0.99			
Frequency Range	40~70Hz (50/60Hz, 50±10Hz, 60±10Hz)			
Frequency Detection	Auto-sensing			
Input Connector type	Hardware Terminal Block			
OUTPUT				
Voltage	208/220/230/240Vac, Single Phase			
Voltage Regulation	±1% (100% Rated Linear Static Load)			
Output Voltage Setting	Configurable			
Output Frequency	(50 ± 0.1%, 60 ± 0.1%)Hz			
Power Factor	0.9			
Overload Protection	Internal Current Limiting, Circuit Breaker, Fuse			
Overload Protection (Line Mode)	105~125% Load for 10 min, 125~150% Load for 1 min, 150~170% Load for 10 sec, >170% Load for 1 sec			
Overload Protection (Battery Mode)	105~125% Load for 2 min, 125~150% Load for 30 sec, >150% Load for 1 sec			
Overload Protection (Bypass Mode)	125~150% Load for 1 min, 150~170% Load for 10 sec, >170% Load for 1 sec			
Harmonic distortion	THDv < 2% Linear load, THDv ≤ 4% Non linear load			
Transient Recovery	60ms (R load from 90% to 110% and vice versa)			
Efficiency AC-AC	Up to 95.5% at battery mode, Up to 96% at line mode, Up to 98% at ECO mode			
Output Connector type	Hardware Terminal Block			
BATTERY				
Voltage & Type	240VDC, VLRA AGM, design life > 3 years			
Runtime@50% Load	15 minutes			
Runtime@100%Load	5 minutes			
Typical Recharging Time	6-7 hours			
Charging current (Max.)	1.35A			
INDICATORS				
LED display	Battery mode, Line mode, Bypass mode, ECO mode, Battery low voltage, Overload & UPS fault			
LCD display	Input frequency, Input voltage, Output frequency, Output voltage, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time			
Alarm	Battery mode : beeping every 4 seconds; Battery low : beeping every second; Overload : beeping twice every second; Fault : continuously beeping			
PHYSICAL & STANDARDS & ENVIRONMENT				
Dimension(WxDxH)/Weight	191× 460× 720mm (with wheel) / 70kg		191× 460× 720mm (with wheel) / 71.5kg	
SAFETY	IEC/EN 62040-1, IEC/EN 62477-1			
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)			
Environment	Operating temperature : 0°C - 40°C; Storage temperature : -25°C~55°C; Humidity range : 20~95%RH @ 0~40°C (Non condensing) Altitude : < 1500m, derating required when >1500m; Noise level < 55dB @1 Meter with 6kVA & < 58dB @1 Meter with 10kVA			

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design