



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: 110~300Vac
- 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 > 96%	
Parallel Expansion	Max. Units up to 4	
Active PFC Compatibility	Yes	
INPUT		
Nominal Voltage	208/220/230/240Vac \pm 10%, Single Phase with ground (2W + G)	
Input Voltage Range	110~300Vac	
Rated Input Current (A)	27.3A	45.5A
Power factor	\geq 0.99	
Frequency Range	40~70Hz (50/60Hz, 50 \pm 10Hz, 60 \pm 10Hz)	
Frequency Detection	Auto-sensing	
Input Connector type	Hardware Terminal Block	
OUTPUT		
Voltage	208/220/230/240Vac, Single Phase	
Voltage Regulation	\pm 1%	
Output Voltage Setting	Configurable	
Output Frequency	(50 \pm 0.1%, 60 \pm 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 \leq 2% Linear load, THDv \leq 4% Non linear load	
Transient Recovery	60ms (R load from 90% to 110% and vice versa)	
Efficiency AC-AC	Up to 90% at battery mode, Up to 94% 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(pf0.7)	20 minutes	
Runtime@100%Load(pf0.7)	7.5 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 x 460 x 720mm (with wheel) / 70kg	191 x 460 x 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