

# RAPTOR Series Power range: 6kVA ~ 10kVA, Rack/Tower Models

## RAPTOR-6KRT/RAPTOR-10KRT

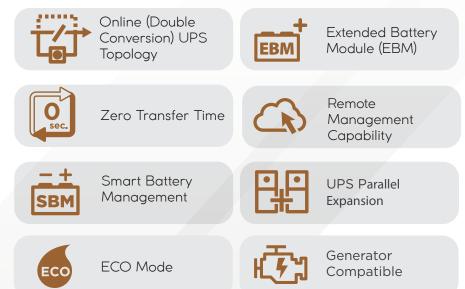
## Overview

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

- N+X parallel redundancy, support maximum 4 units in parallel
  Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110~286Vac
- Wide input frequency range
- Selectable output voltage: 208/220/230/240Vac
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card/SNMP card optional)
- Maximum charging current up to 10A
- Cold start
- Design with maintenance switch (Optional)
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



# Application

# Raptor 6~10kVA, Rack/Tower models

- 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 :

- Infrastucture
- 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.

# SPECIFICATION



Model Name	RAPTOR-6KRT	RAPTOR-10KRT			
Power Rating	6 kVA / 5.4 kW	10 kVA / 9 kW			
GENERAL					
UPS Topology	Online Double Conversion				
ECO Technology	Online ECO Mode				
Parallel Expansion		•			
Active PFC Compatibility	Max. Units up to 4 Yes				
INPUT	· · · · · · · · · · · · · · · · · · ·				
Nominal Voltage	208/220/230/240Vac	+10% Single Phase			
Input Voltage Range		286Vac			
Rated Input Current (A)	27.3A	45.5A			
Power factor		.99			
Frequency Range	40~70Hz (50/60Hz,				
Frequency Detection		ensing			
Input Connector type		erminal Block			
OUTPUT					
Voltage	208/220/230/240Vac, Single Phase				
Voltage Regulation	±1%				
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)					
Overload Protection (Battery Mode)					
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 < 5% Non linear load				
Efficiency AC-AC	Up to 94%				
Output Connector type	Hardware Terminal Block				
BATTERY	2.10	ID C			
Voltage	240\				
Runtime@50% Load(min)	17	11.5			
Runtime@100%Load(min)	6.5	4.5			
Typical Recharging Time		nours			
Charging current (Max.)	10A (settable base)	on battery capacity)			
INDICATORS					
LED display	Battery mode, Line mode, Bypass mode, ECO mode, Battery low voltage, Overload & UPS fault Input frequency, Input voltage, Output frequency, Output voltage, Load percentage,				
LCD display	Battery mode : beeping every 4 seconds; Battery low : beeping every second;				
	Overload : beeping twice every second; Fault : continously beeping				
PHYSICAL & STANDARDS &		440 v 625 v 217 Emm / 76kg (FII)			
Dimension(WxDxH)/Weight	440 × 685 × 217.5 mm / 74kg (5U)	440 × 625 × 217.5mm / 76kg (5U)			
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) Operating temperature : 0°C - 40°C; Storage temperature : -25°C~55°C; Humidity range : 20~95%RH @ 0~40°C (Non condensing)				
Environment	Altitude : < 1500m, derating required when >1500m; Noise level < 55dB @1 Meter with 6kVA & < 58dB @1 Meter with 10kVA				

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



#### Raptor Series 6-10kVA Rack/Tower Models Battery Pack Specification

Model Name	RAPTOR-BPSVN RAPTOR-BPNNE				
GENERAL					
Battery Type	VRLA (Lead acid maintenance free battery)				
Battery recharging time	6~8 hours (To 90% of full capacity)				
Typical battery life	3-5 years, depend on discharing cycle and ambient temperature				
System voltage	240VDC				
Battery quantity	1×20 PCS				
Capacity	7Ah x 12V 9Ah x 12V				
PHYSICAL					
Dimension W×D×H	440×680×131mm (3U)				
Net weight	58kg 63kg				
ENVIRONMENT					
Safety	CE				
Operating environment	0°C - 40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	< 40dB at 1 Meter				

Note: Specifications are subject to change without prior notice

# **Runtime Table**

	External Battery	Runtime at different loads (mins) with RAPTOR-BPNNE			
6kVA	Pack Quantity	25%	50%	75%	100%
	0	40.1	17.0	9.0	6.5
	1	101.8	47.5	28.2	18.1
	2	152.0	70.5	42.1	27.2
	3	203.4	94.2	55.7	36.0
	4	253.2	117.3	69.5	45.2
	5	304.2	140.5	83.2	54.0
	6	354.5	163.3	97.1	62.8
	7	405.5	187.0	110.6	71.3
	8	455.6	210.7	124.2	80.5
	9	505.8	233.6	138.2	89.3
	10	556.8	256.2	152.0	98.2



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Relative humidity	0~95% (Non condensing)				
Noise level	< 40dB at 1 Meter				

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# **Runtime Table**

	External Battery	Runtime at different loads (mins) with RAPTOR-BPNNE			
10kVA	Pack Quantity	25%	50%	75%	100%
	0	25.6	11.5	8.2	4.5
	1	75.0	32.5	18.5	12.1
	2	112.3	48.9	27.5	17.9
	3	149.5	65.0	36.5	23.5
	4	187.3	81.4	45.3	30.2
	5	224.2	97.2	54.5	35.3
	6	262.2	113.0	63.6	41.2
	7	299.5	129.1	72.3	47.1
	8	336.2	145.2	81.5	53.2
	9	373.0	161.3	90.4	58.5
	10	411.3	177.0	99.3	64.3