

RAPTOR Series

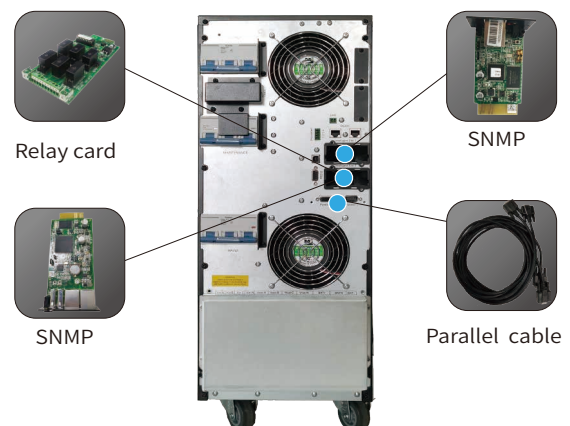
3:3 phase PF 0.9 (PF 1.0 optional)

Power range: 10kVA~40kVA



Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery
10~30kVA: 16/18/20pcs (30~50pcs supportable)
40kVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (Optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Cold start
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)



Technical Specifications:

MODEL	RAPTOR3-10KRT	RAPTOR3-15KRT	RAPTOR3-20KRT	RAPTOR3-30KRT	RAPTOR3-40KRT
Capacity	10kVA/9kW	15kVA/13.5kW	20kVA/18kW	30kVA/27kW	40kVA/36kW
	10kVA/10kW	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW

INPUT

Nominal voltage	380/400/415Vac (3Ph+N+PE)
Operating voltage range	305~478Vac (Full load); 208~478Vac (50% load)
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Bypass voltage range	Max.voltage: 220V: +25% (Optional +10%, +15%, +20%)
	230V: +20% (Optional +10%, +15%)
	240V: +15% (Optional +10%)
	Min.voltage: -45% (Optional -20%, -30%)
Frequency protection range	50/60Hz±10%
ECO range	Same as bypass
Harmonic distortion (THDi)	≤3% Linear load

OUTPUT

Output voltage		380/400/415Vac (3Ph+N+PE)
Voltage regulation		± 1%
Power factor		0.9
Output frequency	Line mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional)
	Bat. mode	50/60 (± 0.1%)Hz
Transfer time	AC mode to Bat.mode	0ms
	Inverter to Bypass	0ms
Output waveform		Pure Sinewave
Crest factor		3:1
Harmonic distortion (THDv)		≤2% Linear load ≤5% Non linear load
Overload	AC mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately turn to bypass
	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, >150% immediately shut down

EFFICIENCY

Efficiency	up to 93.5%	up to 94.5%
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BATTERY

Battery voltage	Standard unit	Chassis 1: ±120Vdc (20pcs 9Ah) (20pcs 7Ah, 2×20pcs 7/9Ah, 3×20pcs 7/9Ah optional)	±120Vdc (2×20pcs 9Ah) (2×20pcs 7Ah, 3×20pcs 7/9Ah optional)		±120Vdc(3×20pcs 9Ah) (3×20pcs 7Ah optional)	±180Vdc(2×30pcs 9Ah) (2×30pcs 7Ah optional)
		Chassis 2: ±96Vdc (16pcs 9Ah)				
	Long run unit	10~30kVA: ±96/108/120Vdc; battery quantity (16~20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8)				
±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs supportable)						
Charge Current	Standard unit	1.35A (2.7A optional)	2.7A		4.05A	2.7A
	Long run unit	14A (Max.)	16A (Max.)	18A (Max.)	20A (Max.)	20A (Max.)

PHYSICAL

Dimension W×D×H	Standard unit	Chassis 1: 250×900×868mm Chassis 2: 250×645×715mm	250×900×868mm			
	Long run unit	250×580×655mm				
Net weight	Standard unit	Chassis 1: 129kg (20pcs 9Ah) Chassis 2: 80kg (16pcs 9Ah)	186kg (2×20pcs 9Ah)	187kg (2×20pcs 9Ah)	236kg (3×20pcs 9Ah)	239kg (2×30pcs 9Ah)
	Long run unit	35kg	39kg	40kg	43kg	46kg

ENVIRONMENTAL

Operating temperature	0~40℃			
Storage temperature	-25~55℃ (No battery)			
Humidity range	0~95% (Non condensing)			
Altitude	<1500m, derating required when>1500m			
Noise level	<55dB	<58dB	<61dB	<64dB

STANDARDS

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)

- Specifications are subject to change without prior notice
- Data above are typical values for reference only, not as a basis for engineering design

BT 10-40kVA battery pack specification

MODEL	RAPTOR3-10KRT		RAPTOR3-15KRT		RAPTOR3-20KRT		RAPTOR3-30KRT		RAPTOR3-40KRT	
BATTERY SYSTEM										
Battery type	VRLA (Lead acid maintenance free battery)									
Typical battery recharging time	6~8 hours (To 90% of full capacity)									
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature									
System voltage	±120Vdc						±180Vdc		±240Vdc	
Battery quantity	2×20 PCS		4×20 PCS				2×30 PCS		2×40 PCS	
Capacity	7Ah/9Ah (12V)									
PHYSICAL										
Dimension W×D×H	250×619×616mm(With wheel)				250×900×868mm (With wheel)					
Net weight	122kg/134kg		244kg/265kg				200kg/215kg		244kg/265kg	
ENVIRONMENT										
Safety	CE									
Operating environment	0°C~40°C									
Relative humidity	0~95% (Non condensing)									
Noise level	<40dB at 1 Meter									

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"240" means the battery system voltage; "N" means battery with neutral connection.