

ONLINE UPS

Rector Series (10 kVA ~ 120 kVA) 3.3



RECTOR series UPS is an intelligent 3 phase in 3 phase out uninterruptible power supply, it adopts double transform high frequency PWM and high performance digital control technique (DSP), with perfect protection, super network management function, reasonable man-machine interface and a series of precision design, meets all high reliability requirements of uninterruptible power supply and integrates reliable, safety, maintainability characteristics of a new generation low frequency UPS.

FEAUTURES

- Online double-conversion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 7 inches LCD touch screen, friendly human & machine interface
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Standard emergency power off function (EPO)
- Standard RS232, RS485, dry contacts communication port
- Optional SNMP communication card
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor

SPECIFICATIONS

MODEL	Rector 10L	Rector 15L	Rector 20L	Rector 30L	Rector 40L	Rector 60L	Rector 80L	Rector 100L	Rector 120L
Capacity	10 kVA 8kW	15 kVA 12kW	20 kVA 16kW	30 kVA 24kW	40 kVA 32kW	60 kVA 48kW	80 kVA 64kW	100KVA 80kW	120KVA 96kW
INPUT									
Input wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Voltage range	285~ 475V								
Rated frequency	50 / 60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	≥ 0.95 (with filter)								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	±20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output voltage regulation	± 1%								
Output frequency regulation	50 / 60 Hz ± 0.1% in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	≤ 1% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC Voltage	Lead acid battery: 360Vdc L ithium iron phosphate battery: 384 Vdc								
Number of batteries	Lead acid battery: 12 V x 30 pcs (support 28~32 pcs) Lead acid battery: 2 V x 180 pcs (support 168~192 pcs) Lithium iron phosphate battery: 3.2 V x 120 pcs (support 112/120 pcs)								
Charging current	Charging rate (settable) × battery capacity (settable) × num ber of battery groups (settable)								
SYSTEM									
Efficiency	In line mode: Max. 93%; ECO mode: ≥ 98%								
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overvoltage, undervoltage, low battery, overtemperature, fan failure								
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)								
EMI	EN62040–2								
EMS	IEC61000–4–2 (ESD)								
	IEC61000–4–3 (RS)								
	IEC61000–4–4 (EFT)								
	IEC61000–4–5 (surge)								
OTHERS									
Operating temperature	0 ~ 40℃								
Storage temperature	–25℃ ~ 55℃ (without batteries)								
Relative humidity	0 ~ 95% (non-condensing)								
Altitude	≤ 1000 m (derating 1% for each additional 100 m)								
IP rating	IP 20								
Noise level at 1 m	65dB								
Dimensions (W × D × H) (mm)	400 × 800 × 1100					600 × 700 × 1500	700 × 800× 1700		
Packaged dimensions (W × D × H) (mm)	490 × 920 × 1300					700 × 800 × 1650	800 × 900 × 1850		
Net weight (kg)	158	165	175	210	260	460	590	630	690
Gross weight (kg)	200	207	217	252	302	480	620	660	720

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

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