

RMDi

30 ~ 300kVA

Modular UPS (30k module)



Introduction

RMDi 30-300kVA is a modular design UPS. It uses on-line double conversion and advanced DSP digital control technology, resulting in the highest levels of reliability. The UPS is three phase in, three phase out, with each module is 30kVA. It's available from 30kVA to 300kVA unit capacity, and parallel 4 units to 1200kVA.

Applications

Medium data centers, server rooms Telecom, IT equipment, group enterprises, and other mission-critical applications.

Benefits

- Modular design, improves maintainability and reliability
- ECO mode operation for energy saving
- Cold start for easy operation
- Communications for network management and remote monitoring
- N+X redundancy, expanding as required, saves initial investment

Features

- Centralized bypass, centralized control, modular design
- Online double conversion and three level technology
- DSP digital control technology
- Wide input voltage range
- Output power factor 1
- High power density with size 440mm*620mm*2U
- Cold start (battery start up)
- ECO mode operation
- intelligent battery management
- N+X redundancy
- Communications: RS485/Dry contact card/SNMP option
- Optional emergency power off (EPO) function
- Compatible with lithium battery applications



Model		RMDi 90 - 30	RMDi 150 - 30	RMDi 300 - 30
Capacity				
UPS Cabinet		30-90 kVA	30-150 kVA	30-300 kVA
UPS module		30 kVA		
Model quantity		3	5	10
Input				
Phase		3 Phase 4 Wires and Ground		
Rated Voltage		380/400/415Vac		
Voltage Range		138- 485Vac		
Frequency Range		40Hz-70Hz		
Power Factor		≥Q,99		
Current THDi		≤3%(100% linear load); ≤5%(100% non-linear load)		
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: ± 10%		
Power Walking In		Yes		
Bypass back irrigation		Bypass back irrigation		
Generator access		Yes		
Output				
Phase		3 Phase 4 Wires and Ground		
Rated Voltage		380/400/415Vac		
Power Factor		1		
Voltage Regulation		± 1%		
Frequency	Utility Mode	± 1%, ± 2%, ± 4%, ± 5%, ± 10% of the rated frequency(optional)		
	Battery Mode	(50/60± 0.1%)Hz		
Crest Factor		3:1		
THD		≤2% with linear load; ≤4% with non linear load		
Efficiency		96%		
Overload		≤ 110%, to bypass after 60min; ≤ 125%,to bypass after 10min; ≤ 150%.to bypass after 1min		
Battery				
Voltage		± 180V/ ± 192V/ ± 204V/ ± 216V/ ± 228V/ ± 240/ ± 252/ ± 264/ ± 276/ ± 288/ ± 300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)		
Charging current	UPS cabinet	30A Max	50A Max	100A Max
	UPS module	10A Max		
Transfer time		Utility to Battery: 0ms; Utility to bypass: 0ms		
Protection				
Alarm		overload, utility abnormal, UPS fault, battery low, etc		
Protection		short circuit, overload, over temperature, battery low, fan fault alarm		
Communication				
Communication interface		USB, CAN, RS485, FE, Parallel card, Dry contact card, SNMP card(optional), LBS (optional), temperature sensor (optional)		
Environment				
Operating Temperature		0 °C - 40 °C		
Storage Temperature		-25 °C - 55 °C (no battery)		
Humidity		0 - 95% (non-condensing)		
Altitude		< 1500m		
Noise level		<70dB		
Physical				
Dimensions D*W*H(mm)	UPS cabinet	850*600*1350	850*600*1350	850*600*2000
	UPS Module	620*440*86		
Net Weight (kg)	UPS cabinet	150	158	245
	UPS Module	21.6		
Standards				
Standards		EN62040-1, EN62040-2, EN62040-3		