

Quality products start with quality people

Key Features

- ◆ Power Module 20K 30K Rack Module UPS 80k/90K/120K/180K/200K/210K/300K
- ◆ High efficiency over 94.5% at 50% load, Output Power Factor 1 technology
- ◆ DSP control, online double conversion, Integrated modular and parallel technology
- ◆ High scalability, Single rack expanding 30KVA to 300KVA, N+1 or N+X redundancy the same rack, supports 1+1 cabinet parallel operation.
- ◆ Built-in maintenance bypass, praevia all panel control and connectors
- ◆ Highly reliable operation with redundant power supply (2) in STS
- ◆ High overload Capacity, 110% @ 60mins, 125% @ 10Mins, 150% @ 1mins
- ◆ 32 to 40PCS adjustable Battery numbers
- ◆ Adjustable charging current, Max 8A or 6A/Module



Technical Specifications

MODEL	RM90/30X-RYY	RM120/30X-RYY	RM120/30X-RYY RM80/20X-RYY	RM180/30X-RYY RM120/20X-RYY	RM200/20X-RYY	RM210/30X-RYY	RM300/30X-RYY
PHASE	3-phase in/3-phase out						
CABINET CAPACITY*	90KW	120KW	120KW or 80KW	180KW or 120KW	200KW	210KW	300KW
BATTERY TYPE	Built-in Battery		External Battery				
One Power Module Capacity	30KVA/30KW		30KVA/30KW or 20KVA/20KW		20KW	30KVA/30KW	30KVA/30KW
Max. Power Module No.	3	4	4	6	10	8	10
Max. Battery Set No.**	3	5	-	-	-	-	-
INPUT							
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)						
Voltage Range	305 ~ 478 VAC at 70% - 100% load; 208 ~ 478VAC for <70% load						
Nominal Frequency	50/60Hz (Auto sensing)						
Frequency Range	40Hz ~70Hz						
Power Factor	> 0.99 at 100% load, >0.98 at 50% load						
Harmonic Distortion (THDi)	< 3% @ 100% load						
OUTPUT							
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)						
Voltage Regulation (Steady state)	≤± 1% Typical (balanced load) ≤± 2% Typical (unbalanced load)						
Nominal Frequency	50/60Hz						
Frequency Range (Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz						
Overload Capability	1 hour for 110%, 10 mins for 125%, 1 min for 150% and 200ms for >150%						
Harmonic Distortion	≤ 2% THD (Linear Load) ≤ 4% THD (Non-linear Load)						
Efficiency	Up to 94.5%						
BATTERY / CHARGER							
Nominal Voltage	+/- 216V (12V x 36 Pcs)						
Maximum Voltage	+/- 240V (12V x 40 Pcs)						
Minimum Voltage	+/- 192V (12V x 32 Pcs)						
Floating Charge Voltage	2.25V/Cell						
Boost Charging Voltage	2.35V/Cell						
Temperature Compensation	Yes						
Maximum Charging Current (Per Power Module)	8A	8A for 30KW power module 6A for 20KW power module		6A	8A	8A	
PHYSICAL							
Cabinet Dimension (D x W x H) mm	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010		
Net Weight (kgs)	675	932	335 or 333	437.5 or 434.5	611	549	620
ENVIRONMENT							
Operation Temperature	0 ~ 40°C						
Relative Humidity	0 ~ 95% non-condensing						
Altitude***	<1000m for Nominal power						
IP Class	IP 20						
MANAGEMENT							
RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7, Linux and MAC						
Optional SNMP	Power management from SNMP manager and web browser						
STANDARDS							
Safety	IEC/EN 60950-1; IEC/EN 62040-1						
EMC	IEC/EN 62040-2 Category C3						

*When temperature is above 30°C, the output power factor will be de-rated, 0.9 at 31°C~35°C and 0.8 at 36°C~40°C.

**one set = 4*Module (10*7AH/9AH Tray), Max 40PCS/set

***the altitude is above than 1000m, the output power must be derated one percent per 100m.

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PM30



PM20



Battery Module

Model	Description	Dimension DxDxH(mm)	Weight (kg)
PM-30HV	3P/3P 30KVA/30KW power module	736.5 x 490 x 133 (3U)	34.5
PM-20HV	3P/3P 20KVA/20KW power module	736.5 x 490 x 133 (3U)	34
Battery Module	10 pcs of 12V/9Ah or 7AH batteries	710x107x154	26 (9AH)



LCD Panel Display

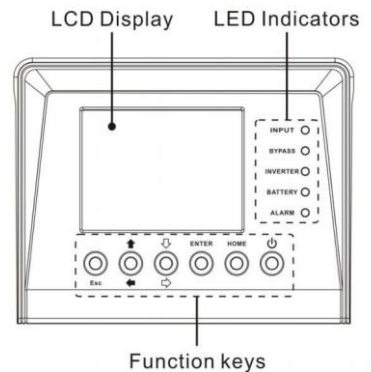
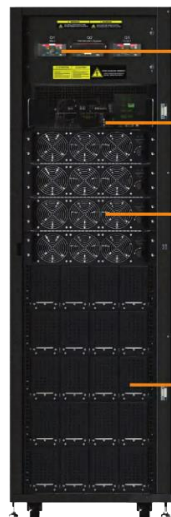


- Input / Output
- Maintenance Bypass
- Breakers

STS Module Includes Communication Ports

Power Module

Battery Module



RM90/30X-RYY



RM120/30X-RYY



RM210/30X-RYY



RM120/30X-RYY



RM210/30X-RYY



RM300/30X-RYY

PM30 400V Cabinet						
Rack Model Name	RM90/30X-RYY	RM120/30X-RYY	RM210/30X-RYY	RM120/30X-RYY	RM210/30X-RYY	RM300/30X-RYY
Height	30U	30U	30U	42U	42U	42U
STS Capacity	90K	120K	210K	120K	210K	300K
Type of installable power module	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K
Max. number of installable power module	3	4	6	4	8	10
Number of installable battery modules in Layer	3	N/A	N/A	5	N/A	N/A
Max. capacity of installing HV 20K module	60K	80K	120K	80K	160K	200K
Max. capacity of installing HV 30K module	90K	120K	180K	120K	210K (If installed with 8 pcs, one is for redundancy)	300K
Max capacity w/ internal battery, no external battery	60K (Maximum with 3 layers of battery modules)	N/A	N/A	90K (Maximum with 5 layers of battery modules)	N/A	N/A
Built-in empty battery modules in BOM	Yes, 12pcs	No	No	Yes, 20pcs	No	No

PM20 400V Cabinet			
Rack Model Name	RM90/20X-RYY	RM120/20X-RYY	RM210/20X-RYY
Height	30U	30U	42U
STS Capacity	90K	120K	210K
Type of installable power module	HV 20K only	HV 20K only	HV 20K only
Max. number of installable power module	4	6	10
Number of installable battery modules in layer	N/A	N/A	N/A
Max. capacity of installing HV 20K module	80K	120K	200K
Max. capacity of installing HV 30K module	N/A	N/A	N/A
Max capacity w/ internal battery, no external battery	N/A	N/A	N/A



RM90/20X-RYY



RM120/20X-RYY



RM210/20X-RYY