Modular UPS











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The RM 10-90 UPS, the new member of RM Series Three Level Three Phase Modular UPS family, is a scalable platform to meet increasing power requirements for classic rack/ server cabinets in your IT infrastructure. It can be simply added to your system by placing it in your existing rack cabinet without any extra wiring or changes in your system. Its 10 kVA/ 10 kW power modules are capable of operating as 1/1, 3/1, 3/3 & 1/3 for extended versatility and adaptability for small/mid range applications. The RM10-180 offers unity power factor at output (kW=kVA) which places itself at a unique position among its competitors globally. The RM10-180 offers maximium monitorability & manageability via biggest in class LCD screen with more comprehensive system view of your UPS. Beside all of these extended features. The RM10-180 is designed without sacrificing distinguishing features of RM Series. Its superior hotswappable power module technology, high performance best in class high efficienct character are protected as RM Series.

RM serisinin Klasik Rack kabinet ve düşük güçlü modüler uygulamaları için yeniden yorumlanmış hali. Sisteminizde herhangi bir değişiklik yapmadan mevcut kabininizin içine kolayca yerleştirebileceğiniz bir şekilde tasarlandı. Küçük uygulamalardaki çok yönlülük düşünülerek 10kW modüller 1/1, 1/3, 3/1, ve 3/3 çalışabilecek şekilde, üstelik çıkış güç faktörü 1 olacak şekilde tasarlandı.

Üstelik çıkış güç faktörü 1 olarak tasarlandı ve VA/W farkı ortadan kaldırıldı. Maksimum erişebilirlik ve gözlem için sınıfındaki hiçbir üründe bulunmayan boyutta bir dokunmatik ekran ile donatıldı. Tüm bu ilave özelliklerine rağmen, bulunduğu modüler ailesinin ayırt edici tüm özelliklerinden taviz verilmedi. Enerji altında değiştirilebilen modülleri, yüksek verimi ve üstün performansı aynen korundu.











Technical Specifications	RM10 / RM15 Series			
Rated Power / Max. Output Power	30 kVA / 30 kW	45 kVA / 45 kW	60 kVA / 60 kW	90 kVA / 90 kW
Power of Each Module	10 kVA	15 kVA	10 kVA	15 kVA
Max. Number of UPS Modules	3	3	6	6
GENERAL				
UPS Type / Technology	Modular Design (Centralized Parallel Architecture) / 3-Level Technology			
MTBF / MTTR	> 200,000 hrs / < 10 mins.			
Output Power Factor	1			
Display Parameteres via LCD	7" Touched Colorful LCD+LED, Mimic Diagram for Complete System; Indicators for Battery, Rectifier, Inverter, Bypass, Load Status; System Information, Data and Instruction, Current Record Window; Monitoring Main Input, Bypass Input, AC Output Characters, Load Data, Battery Data (Temp, Remaining Time, Capacity, Etc.)			
Smart Features / Smart Eco Mode	Cold Start; AC Restart; Auto Restart / Standard; User Selectable			
True Redundancy / [ N+1 ]	N+1&N+X Paralleling Options / Up To 2 Units			
Protections	Over Temperature, Overload, Output Short Circuit, Battery EOD (Deep Charge), AC Line & Neutral Reverse Connection Protection; Fan Testing, Self Testing			
Troubleshooting	EPO; Battery Charging & Discharging, Maintenance Circuit Breaker, Generator Statur; Bypass Phase Fault, Fan Fault, Voltage Abnormal Alarms; Manual UPS Shutdown, ETC.			
EFFICIENCY				
Overall Efficiency	>95% @ 100% Rated Load			
Smart Eco Mode Efficiency	≥98% @ 100% Rated Load			
INPUT				
Rated Voltage	380 / 400 / 415 VAC (Line to Line); 220 / 230 / 240 VAC (Line to Neutral)			
Voltage Range	Up 276 VAC; Down -40% (-20%, -30%, -40% Selectable) -20% ~ -40% Rated Power Derating From 100% ~ 80%			
Rated Frequency	50 or 60 Hz			
Frequency Range	40 ~ 70 Hz			
Power Factor	0.99			
THDi	< 3%			
ОИТРИТ				
Rated Voltage / Voltage Accuracy	380 / 400 / 415 VAC (Line to Line) / <1%; 220 / 230 / 240 VAC (Line to Neutral) / <1%;			
Rated Frequency / Freq. Accuracy	50Hz or 60Hz / ± 0.02%			
THDv	< 1% (Linear Load), < 4% (Non-Linear Load)			
Crest Factor	3:1			
Overload Capability	110%, Transfer to Bypass After 60 minutes; 125%, Transfer to Bypass After 10 minutes; 150%, Transfer to Bypass After 1 minute; >150%, Transfer to Bypass After 200 ms			
BATTERY				
Rated Voltage / Quantity	± 240VDC / 40 ± 4 pcs 12VDC VRLA AGM (Selectable)			
COMMUNICATION				
Advanced Communication	RS232, RS485, Dry Contacts, SNMP card (Optional), EPO			
Remote ON/OFF	Remote EPO or SNMP over LAN			
ENVIRONMENT				
Operating Temperature	0°C to 40°C			
Recommended Operating Temperature	15°C to 25°C			
Storage Temperature	-25°C to 70°C			
Altitute / Relative Humidity	< 1000m above sea level; derating power by 1% per 100m between 1000m and 2000m / 0 to 95%, non-condensing			
Audible Noise	< 56dBA (One Module) < 58dBA (One Module) < 56dBA (One Module) < 58dBA (One Module)			
STANDARDS				
Safety / EMC / LVD / Performance	TSE / EN50091-1-1; IEC62040-1	-1; AS 62040-1-1 / EN50091-2; IE	C62040-2; AS 62040-2(C3) / EN500	91-3; IEC62040-3; AS 62040-3
DIMENSIONS & WEIGHT				
Dimensions (WxDxH) [mm]	Frame: RM30/10-RM45/15	485x751x575mm 57kg	Frame: RM60/10-RM90/15	485x751x1033mm 70kg
Weight [kg]	Power Module: RM10	436x590x85mm 15,3kg	Power Module: RM15	436x590x85mm 15,5kg