

RM Series 40 kVA - 1.2 MVA

Modular UPS



RM series has 40 kVA power modules and is able to be increased to 400 kVA in standard. Furthermore, this UPS can be enhanced to 1,2 MVA with optional N+X parallel configuration.

RM series provides uninterruptible power and continuous working with double conversion, flexible battery configuration, functional using, and properties of changing modules under load.

RM serisi 40 kVA modüllerden oluşan ve standartta 400 kVA ya kadar güç sağlayabilen ürünlerdir. Ayrıca N+X paralelleme konfigürasyonu ile UPS gücü 1,2 MVA ya kadar çıkarılabilir.

RM serisi çift çevrim özelliği, esnek akü konfigürasyonu, fonksiyonel kullanımı ve yük altında modül değiştirilebilirlik özelliği ile sürekli çalışabilme ve kesintisiz güç imkanı sağlar.

Technical Specifications		RM40 Series
Rated Power / Max. Output Power	40-400 kVA / 40-400 kW	
Power of Each Module	40 kVA	
Max. Number of UPS Modules	10	
GENERAL		
UPS Type / Technology	Modular Design (Centralized Parallel Architecture) / 3-Level Technology (IGBT)	
MTBF / MTTR	> 200,000 hrs / < 10 mins.	
Output Power Factor	1	
Display Parameters via LCD	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 / System Capacity up to 1,2 MVA / 1,2 MW	
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 Status; Bypass Phase Fault, Fan Fault, Voltage Abnormal Alarms; Manual UPS Shutdown, ETC.	
EFFICIENCY		
Overall Efficiency	≥96% @ 100% Rated Load, ≥95% @ 50% Rated Load	
Smart Eco Mode Efficiency	≥98,5% @ 100% Rated Load	
INPUT		
Rated Voltage	380 / 400 / 415 VAC 3P + N + GND / ±1%	
Voltage Range	304 ~ 478 VAC (line-line); 100% Load; 304 ~ 228 VAC, Load Derated Linearly	
Rated Frequency	50 or 60 Hz	
Frequency Range	40 ~ 70 Hz	
Power Factor	0.99	
THDi	≤ 3%	
OUTPUT		
Rated Voltage / Voltage Stability	380 / 400 / 415 VAC 3P + N + GND / ±1,5%	
Rated Frequency / Freq. Accuracy	50 or 60Hz / ± 0.1%	
THDv	< 1,5% (Linear Load), < 5,5% (Non-Linear Load)	
Crest Factor	3:1	
Overload Capability	110% for 1 hour; 125% for 10 minutes; 150% for 1 minute; >150% for 200ms	
BATTERY		
Rated Voltage / Quantity	± 240VDC / 36-44 pcs 12VDC (Adjustable)	
Charger Current	%20 for System Power	
COMMUNICATION		
Advanced Communication	Standart: RS232, RS485, USB, Dry Contacts (Programmable); Optional: SNMP, AS400, Paralel Kit, Battery Cold Start (Standard for 250 kVA and above) Lightning Protection Components, Dust Filter, LBS	
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	
Altitude / Relative Humidity	≤ 1500m above sea level; derating power by 1% per 100m between 1500m and 2000m / 0 to 95%, Non-Condensing	
Audible Noise	72dB @ 100% Load; 69dB @ 45% Load (1 Meter Away)	
STANDARDS		
Safety / EMC / LVD / Performance	CE/TSE/IEC61000-4-2 (ESD); IEC61000-3 (RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge); EN62040-1; EN62040-2; EN62040-3	
DIMENSIONS & WEIGHT		
Module Dimensions (WxDxH) [mm]	510x700x178	
Module / UPS Net Weight [kg]	44 / 900	
UPS Dimensions (WxDxH) [mm]	1300x1100x2000	
Protection Class	IP20	