

# RM 50 POWER SERVER

Modular Online UPS  
50~600kVA~1000kVA~6000kVA

## Applications:

For all kind of ADP Machines



The RM50series modular, online UPS ranging from 50kVA to 1000kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM 50 series feature the latest technology of 3-level technology and PFC input control, which guarantees ultra high efficiency of 96.8% and reliability. Its compact design ensures power density of 1000kVA in one cabinet, 6 units can be paralleled for capacity extension or redundancy up to 6000kVA, making it an excellent choice for medium and large data centre.

## Features:

- **Compact Design**  
600kVA in one cabinet, footprint less than 1.02m<sup>2</sup>, saving valuable space
- **High Power Density**  
50KVA power module in 3U height, easy for capacity expansion with full capacity
- **Ultra Efficiency**  
Advanced 3-level technology guarantees high efficiency operating in double conversion mode 96.8%
- **Intelligent Charging Management**  
The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- **IGBT based Rectifier and Inverter**
- **High Scalability**  
The system can be configured from 50kVA to 1000kVA in one single cabinet, 6 units in parallel for a capacity extension up to 6000kVA
- **Friendly HMI**  
7 inch touch screen with graphic display
- **Smart Sleep Function Load Management**  
System can intelligently shutdown some power modules in case of less load, save electrical energy.
- **Multi Communication Interface**  
Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts
- **Lithium battery compatible**



7 inches touch screen, fully graphic Operation, supporting multi-language (10.4 inches touch screen optional)



Monitoring Management



**Specification**

| MODEL                 |  | RM600/50X   | RM500/50X      | RM400/50X | RM300/50X   | RM200/50X     | RM100/50X    | RM240/40X   | RM160/40X     | RM080/40X  |              |
|-----------------------|--|---|----------------|-----------|---|---------------|--------------|---|---------------|--|--------------|
| System Capacity       |  | 600kVA  | 500kVA         | 400kVA    | 300kVA  | 200kVA        | 100kVA       | 240kVA  | 160kVA        | 80kVA  |              |
| Power Module Capacity |  | 50kVA/50kW  |                |           |   |               | 40kVA/40kW   |   |               |  |              |
| Input                 | Dual Input   | Standard  |                |           |   |               |              |   |               |  |              |
|                       | Phase  | 3 Phases + Neutral + Ground, 380/400/415VAC (line-line)   |                |           |   |               |              |   |               |  |              |
|                       | Input Voltage Range  | 304~478Vac (Line-Line),full load<br>228V~304Vac (line-line),load decrease linearly according to the min phase voltage |                |           |   |               |              |   |               |  |              |
|                       | Rated Frequency  | 50/60Hz   |                |           |   |               |              |   |               |  |              |
|                       | Input Frequency Range  | 40Hz ~ 70Hz   |                |           |   |               |              |   |               |  |              |
|                       | Input PF   | >0.99   |                |           |   |               |              |   |               |  |              |
|                       | Input THDi   | <3% (100% Linear Load)  |                |           |   |               |              |   |               |  |              |
| Bypass                | Rate Voltage   | 380/400/415VAC (Line-Line)  |                |           |   |               |              |   |               |  |              |
|                       | Rate Frequency   | 50/60Hz   |                |           |   |               |              |   |               |  |              |
|                       | Input Voltage Range  | Settable, -40% ~ +25%   |                |           |   |               |              |   |               |  |              |
|                       | Input Frequency Range  | Settable, $\pm 1$ Hz, $\pm 3$ Hz, $\pm 5$ Hz  |                |           |   |               |              |   |               |  |              |
|                       | Bypass Overload  | 110% Long term operation<br>110%~125% last for more than 5min<br>125%~150% last for more than 1min                    |                |           | 125%, long time<br><130%, for 10 mins<br><150%, for 1 min |               |              | 110% long term<br>125% for 5mins<br>150% for 1min |               | 125%, long time<br>130%, for 10 minutes<br>150%, for 1 min |              |
| Output                | Rated Inverter Voltage   | 380/400/415VAC (Line-Line)  |                |           |   |               |              |   |               |  |              |
|                       | Voltage Regulation   | 1% for balance load; 1.5% for unbalance load  |                |           |   |               |              |   |               |  |              |
|                       | Rate Frequency   | 50/60Hz   |                |           |   |               |              |   |               |  |              |
|                       | Frequency Precision  | 0.1%  |                |           |   |               |              |   |               |  |              |
|                       | Output PF  | 1   |                |           |   |               |              |   |               |  |              |
|                       | Output THDu  | <1% linear load; <5.5% non-linear load  |                |           |   |               |              |   |               |  |              |
|                       | Crest Factor   | 3:1   |                |           |   |               |              |   |               |  |              |
| Inverter Overload     | <110% for 1 hour;125% for 10mins;150% for 1min;>150% for 200ms |   |                |           |   |               |              |   |               |  |              |
| Battery               | Battery Rate Voltage   | $\pm 240$ VDC   |                |           |   |               |              |   |               |  |              |
|                       | Battery Number   | 40pcs (settable: even number from 32 to 44)   |                |           |   |               |              |   |               |  |              |
|                       | Voltage Precision  | 1%  |                |           |   |               |              |   |               |  |              |
|                       | Charger Power  | up to 20% *Output active power  |                |           |   |               |              |   |               |  |              |
|                       | Battery Cold Start   | Standard  |                |           | Optional  |               |              | Standard  |               | Optional   |              |
| System                | Efficiency   | AC Mode: 96% ECO Mode: 99% Battery Mode: 96%  |                |           |   |               |              |   |               |  |              |
|                       | Display  | 10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard   |                |           |   |               |              |   |               |  |              |
|                       | IP Class   | IP20  |                |           |   |               |              |   |               |  |              |
|                       | Interface  | RS232, RS485, USB, Programmable dry contact   |                |           |   |               |              |   |               |  |              |
|                       | Option   | SNMP, Parallel kit, SPD, Dust Filter, LBS   |                |           |   |               |              |   |               |  |              |
|                       | Temperature  | Operation: 0 ~ 40 °C Storage: -40 ~ 70 °C   |                |           |   |               |              |   |               |  |              |
|                       | Relative Humidity  | 0 ~ 95% Non condensing  |                |           |   |               |              |   |               |  |              |
|                       | Altitude   | <1000m, Load derated 1% per 100m From 1000 ~ 2000m  |                |           |   |               |              |   |               |  |              |
|                       | Noise (1 meter)  | 72dB @ 100% load, 69dB @ 45% load   |                |           |   |               |              |   |               |  |              |
|                       | Applicable Standard  | Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3  |                |           |   |               |              |   |               |  |              |
| Physical              | Weight (kg)  | Cabinet   | 1040           | 900       | 700   | 490           | 350          | 210   | 490           | 350  | 210          |
|                       |  | Power module  | 45             |           |   |               |              | 44  |               |  |              |
|                       | Dimension<br>W*D*H (mm)  | Cabinet   | 1300*1100*2000 |           | 1050*1000*2000  | 650*1095*2000 | 650*960*1600 | 600*980*1150                                      | 650*1095*2000 | 650*960*1600   | 600*980*1150 |
|                       |  | Power module  | 510*700*178    |           |   |               |              | 510*700*178                                       |               |  |              |

**Mktg & Mfd By :**

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**Dealer :**