

## GEN-RMX Series Modular Online UPS

### 40-500kVA (380V/ 400V/415V)

The GEN-RMX Series Modular, Online UPS ranging from 40KVA to 500KVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.



### FEATURES

<p><b>Compact Design</b> 500KVA in one cabinet, footprint less than 1.45 m<sup>2</sup>, saving valuable room space</p>	<p><b>High scalability</b> The system can be configured from 40kVA to 500KVA in one single cabinet, 3 units in parallel for capacity up to 1500KVA</p>
<p><b>High power density</b> 40/50kVA power module in 4U height, easy for capacity expansion</p>	<p><b>Friendly HMI</b> 10.4" touch color LCD with graphic display, Independent LCD for each power module.</p>
<p><b>High efficiency</b> Advanced 3-level IGBT technology guarantees high efficiency operating in double conversion mode up to 96%.</p>	<p><b>Smart Sleep function</b> System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency, even at lower loads (<math>\geq 95\%</math> at 35%)</p>
<p><b>Intelligent charging management</b> The system intelligently control the whole process of charging and discharging, effectively improve the life time of the battery.</p>	<p><b>Multi Communication Interface</b> Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts. HTTP, SNMP, SMTP, Ethernet protocols.</p>

## UPS SPECIFICATION

Model	GEN-RMX-100/50 GEN-RMX-80/40	GEN-RMX-200/50 GEN-RMX-160/40	GEN-RMX-300/50 GEN-RMX-240/40	GEN-RMX-500/50 GEN-RMX-400/40
Power Rating	100kVA/100kW 80kVA/80kW	200kVA/200kW 160kVA/160kW	300kVA/300kW 240kVA/240kW	500kVA/500kW 400kVA/400kW
<b>Main Input</b>				
Grid System	3 Phases + Neutral + Ground			
Rated Input Voltage	380/400/415VAC			
Rated Frequency	50/60Hz			
Input Voltage Range	304~478Vac (Line-Line), full load 228V~304Vac (Line-Line), load decrease linearly according to the min phase voltage			
Input Frequency Range	40Hz ~ 70Hz			
Input Power Factor	>0.99 (full load); >0.98 (half load)			
Input Current THDi	<3% (full Linear Load)			
<b>Bypass Input</b>				
Rated Bypass Voltage	380/400/415VAC (Line-Line)			
Rated Frequency	50/60Hz			
Bypass Voltage Range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25% Down limited: -10%, -15%, -20%, -30%, -40%			
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz			
Bypass Overload	125%, long time operation 125%< load <130%, last for more than 10 minutes 130%<load<150%,last for more than 1 minutes >150%, last for more than 300ms		110% Long term operation 110%~130% last for more than 5min 125%~150% last for more than 1min >150% last for more than 1s	
<b>Output</b>				
Rated Inverter Voltage	380/400/415VAC (Line-Line), 3Ph + N + G			
Rated Frequency	50/60Hz			
Output Power Factor	1			
Voltage precision	±1%			
Transient Response	<5% for step load (20% - 80% -20%)			
Transient recovery	< 30ms for step load (0% - 100% -0%)			
Output Voltage THDu	<1% from 0% to 100% linear load <5% full non-linear load according to IEC/EN62040-3			
Inverter Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%,200ms			
Frequency Regulation	50/60Hz ± 0.02%			
Synchronized Range	Settable, ±0.5Hz ~ ±5Hz, default ±3Hz			

Synchronized Slew Rate	Settable, 0.5Hz/S ~ 3Hz/S, default 0.5Hz/S			
<b>Battery And Charger</b>				
Battery Rate Voltage	±240VDC			
Charger Voltage precision	1%			
Charger Power	max=20% *Output power			
<b>Efficiency</b>				
Normal Operation	>96%			
Battery Operation	>96%			
ECO Mode	>99%			
<b>System</b>				
Display	LED + LCD + touch screen			
Interface	RS232, RS485, USB, Programmable dry contact		RS232, RS485, USB, Programmable dry contact, battery cold start	
Option	battery cold start, SNMP, AS400, parallel kit, Lightning protection components, Dust Filter, LBS		SNMP, AS400, parallel kit, Lightning protection components, Dust Filter, LBS	
<b>Environmental</b>				
Operation Temperature	0 ~ 40 °C			
Storage Temperature	-40 ~ 70 °C			
Relative Humidity	0 ~ 95% Non-condensing			
Noise (1 meter)	72dB @ 100% load, 69dB @ 50% load			
Altitude	<1000m, Load derated 1% per 100m From 1000 ~ 2000m			
<b>Physical data</b>				
Cabinet Dimension(W*D*H,mm)	600*980*1150	650*960*1600	650*1095*2000	1300*1100*2000
Cabinet Weigh (kg)	210	350	220	900