RM33 Low Frequency Series (Custom Version)

Product Introduction

The RM33 Series UPS is a high-end three-phase input, three-phase output double-conversion UPS meticulously developed by our company. Featuring an innovative design and integrated concept, the product holds a number of patents and delivers significant improvements in environmental performance, high efficiency, energy saving and reliability.Its performance specifications have reached an internationally advanced level. With full digital control based on multiple DSP, MCU and CPLD modules, the system supports direct masterless autonomous parallel operation of up to 8 units. Boasting an excellent cost-performance ratio, it is the ideal solution for industries with demanding power supply requirements.

Application Scenarios

It is mainly designed for large IDC rooms, banking/securities settlement centers, telecommunications network management centers, semiconductor production lines, large-scale automated production and other control systems. It can be customized to meet the specific requirements of special users, and applied to lighting systems in large stadiums, conference halls, theaters, as well as expressways, railways and tunnels.

Product Features

- Full digital control; high stability
- Rectifier + IGBT inverter; 380/400/415 V, 50/60 Hz
- PF up to 0.9; >10% higher load capability
- Wide input voltage/frequency range
- Digital current sharing; parallel up to 8 units
- Strong overload / short-circuit capability
- Smart battery management with undervoltage protection
- Zero-transfer static switch; PLL sync for seamless bypass
- Surge + over/under-voltage output protection
- N+1 redundancy; sealed air duct + redundant fans
- Multilingual LCD with logs and battery info
- Supports 12 languages (incl. Chinese/English)

300-800K Custom Version Product Parameters

Model RM33-	300K		400K		500K	600K	800K
	6 pulse	12 pulse	6 pulse	12 pulse	12 pulse	12 pulse	12 pulse
Capacity	300KVA/270KW		400KVA/360KW		500KVA/450KW	600KVA/540KW	800KVA/720KW
Rated voltage	380/400/415VAC3Ph+N+PE						
Rated frequency	50/60Hz						
AC input							
Voltage range	±15%;±25%(optional)						
Frequency range	45-65Hz						
Input power soft start	0~100%,5~300sadjustable						
Power factor	>0.98 (with filter)						
THDi	<4.5% (with filter)						
Bypass input							
Voltage range	±15%;±25%(optional)						
Frequency range	50/60Hz±10%						
Output							
Inverter voltage	380/400/415VAC 3Ph+N+PE						
Voltage regulation	±1% (steady-state); ±3% (transient)						
Input frequency	50/60Hz						
Frequency (battery mode)	50/60Hz±0.05Hz						
Power factor	PF 0.9 (90 kW per 100 kVA)						
Steady-state response time	<5ms						
Overload capability	At PF 0.9: 110% 1 h; 125% 10 min; 150% 1 min						
Short-circuit current limiting	3-phase: 150% for 5 s ; Single-phase: 290% for 5 s						
Max. static bypass current	Bypass current capacity: 1000% for 100 ms						
Phase shift	Balanced load <1° ,100% unbalanced load <1°						
THDV	100% linear load <1% ; 100% non-linear load <3%						
System efficiency (full load)	Up to 94%; ECO mode up to 98%						
DC							
Voltage regulation	1%						
BatteryInput voltage	384VDC				480VDC		
Environment							
Operating temperature	0~40℃						
Relative humidity	0~95% RH (non-condensing)						
Storage temperature	-25~70℃ (nobattery)						
Altitude	≤ 1000 m at rated load; above 1000 m, derate load by 1% per 100 m						
Noise (1 m in front)	55~65dB						
IP rating	IP20						
Standards	Safety: IEC60950-01, IEC62040-1-1, UL1778, EMC: IEC62040-2CLASSA, EN50091-2CLASSA, Design & test:IEC62040-2CLASSA						
Physical							
Weight (kg)	1600		2100		3890	4160	5390
Dimensions (L×W×H) mm	1400X1100X2000		1640X850X1900		2938X1100X1900		3955X1100X1900

Note:Specifications are subject to change without prior notice.