

Matrix 30-300KVA/KW Series - 33 UPS

Features:

- True double conversion
- Output power factor = 1
- N+1 (or more) Parallel redundancy – High reliability
- 10 Modular power units – 30KVA/30KW each
- Scalability and easy replacement (hot-swap power modules)
- Wide input frequency range – 40Hz-70Hz
- Wide input voltage range
- Modular topology - decreases MTTR
- Built-in maintenance bypass switch
- Emergency power off function (EPO)
- Adjustable number of batteries
- Removable battery packs (hot swap) without shutting down
- Adjustable charging current up to 8A
- RS232/USB interface and optional SNMP
- Advanced Graphic 5.7" LCD design - Friendly configuration



Specifications

Capacity*	120 KW	180 KW	210 KW	300 KW
Phase	3 phase in / 3 phase out			
UPS power modules	1-4	1-6	1-7	1-10
Topology	Modular, True double conversion online UPS			
Input				
Nominal Voltage	3 x 400 VAC (3Ph+N)			
Voltage Range	VAC at 70%-100% load 305-478 208 ~ 478VAC at <70% load			
Nominal Frequency	50/60Hz (Auto sensing)			
Frequency Range	40Hz ~70Hz			
Power Factor	> 0.99 at 100% load, >0.98 at 50% load			
Harmonic Distortion (THDi)	< 3% @ 100% load			
Output				
Nominal Voltage	3 x 400 VAC (3Ph+N)			
Voltage Regulation (Steady state)	1% \pm Typical (balanced load) \leq \pm 2% Typical (unbalanced load)			
Voltage Regulation (Transient)	\leq \pm 5% Typical			
Nominal Frequency	50/60Hz			
Frequency Range	46Hz ~ 54Hz or 56Hz ~ 64Hz (Synchronized range)			
Overload Capacity	1 hour for 110%, 10 min for 120%, 1 min for 150% and 200ms for > 150%			
Harmonic Distortion	\leq 1% THD (Linear Load) \leq 4% THD (Non-linear Load)			
Efficiency	Up to 95%			
Battery / Charger				
Battery string	12V x (32,36,40)			
Floating Charge Voltage	2.25V/Cell			
Boost Charging Voltage	2.35V/Cell			
Temperature Compensation	Yes			
Maximum Charging Current	8A (adjustable)			
Physical				
Medium Size (DXWXH)	1100 x 600 x 1485 (30U) mm		1100 x 600 x 2030 (42U) mm	
Weight-Base without module	197	230	264	275
Weight - module	34			
Environment				
Operation Temperature	0 ~ 40°C			
Relative Humidity	0 ~ 95% non-condensing			
Altitude	<1000m for Nominal power			
IP Class	IP 20			
Management				
RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7, Linux, Unix and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
Standards				
Safety	EN 62040-1			
EMC	EN 62040-2			
Design	EN 62040-3			

*When temperature is above 30°C, the output power factor will become 0.8
 Note: one battery module contains 10 pcs of 12V/7Ah or 12/9Ah sealed acid batteries
 Characteristics subject to change without prior notice