

## Matrix 30-300KVA/KW Series - 33 UPS

### Features:

- True double conversion
- High efficiency up to 95%
- Output power factor = 1
- N+1 (or more) Parallel redundancy – High reliability
- 7 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*	30 KW	60 KW	90 KW	120 KW	150 KW	180 KW	210 KW	240 KW	270 KW	300 KW
Phase	3 phase in / 3 phase out									
UPS power modules	1	2	3	4	5	6	7	8	9	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 (Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz									
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										
Nominal Voltage	+/- 216V (12V x 38 Pcs)									
Maximum Voltage	+/- 240V (12V x 40 Pcs)									
Minimum Voltage	+/- 192V (12V x 36 Pcs)									
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			-						
Full Size (DXWXH)	1100 x 600 x 2030 (42U) mm									
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