



**POWER+ SA Series
10kVA-40kVA
&
POWER+ 19"
10kVA-20kVA**



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POWER+ SA 10kVA Technical Specifications

POWER+ SA	3/3	3/1	1/1
Topology	True online battery, double conversion		
Capacity	10 kVA / 8 kW		
Input	3 phase + N + PE		1 phase + N + PE
Voltage	3 x (380 V ~ 415 V) + N + PE		(220 V ~ 240 V) + N + PE
Voltage tolerance	-27 % and +20 %		
Current	15 A per phase, no inrush current at startup		45 A, no inrush current
Power walk-in	<60 s		
Input power factor	1		
Input THDi	< 5 %		
Earth leakage current	3 mA max.		
Output	3 phase + N + PE		1 phase + N + PE
Rated power	10 kVA / 8 kW		
Frequency tracking range	± 3 Hz		
Slew rate	1 Hz/sec		
Voltage	3x(400 V)+N+PE	(220 V ~ 240 V) + N + PE	
Static regulation	±1 %		
Regulation for unbalanced load	±1 % for 100 % unbalanced load		
Dynamic response to 100 % load step	±2 %		
Overload	110 % for 10 min; 125 % for 60 s; 1000 % for 1 cycle		
Waveform	Sinusoidal		
THD	Less than 2 % for linear load		
Load CF (max)	6:1		
Dc/Ac efficiency (nominal)	98 %		
Ac/Ac efficiency (nominal)	96 %		
Static Switch (bypass)			
Input connection	Dual feed		
General			
Maximum power dissipation (Po=8KW)	384 W (1300 BTU/h)		
Ambient temperature	operation: -10 °C to +40 °C storage: -20 °C to +60 °C		
Relative humidity	95 % max, non-condensing		
Altitude	1500 m without derating		
Enclosure	IP20		
Cooling system	Multi-fan with speed control (forced)		
Acoustic noise (full load) at 1.5 m distance	47 dBA		
MTBF	250,000 h		
Dimensions (mm)	560(H) x 90 (W) x 600 (D)		
Weight	18 kg		
LCD display			
Input	Voltage, frequency, current		
Output	Voltage, frequency, current		
Batteries	Voltage		
Log (events memory)	Last 200 events		
Communication			
RS232	Yes		
Dry contact alarm	Yes		
SNMP	Optional		
Standards			
EMC	IEC 62040-2, under EMC 2004/108/EC		
Design	IEC 62040-3		
Safety	IEC 62040-1, under LVD 2006/95/EC		
Low magnetic field radiation	EMF as per ICNIRP		
Batteries (external)			
Type	Sealed, valve-regulated, lead-acid		
Number	64 x (5 Ah / 12 V)		
Backup time	8 min @ 100 % load; 25 min @ 50 % load		
Recharge time	4~6 h		
Battery cabinet			
Dimensions (cm)	45 (H) x 26 (W) x 60 (D)		
Weight	110 kg		

* All specifications are typical and subject to change without prior notice