



Uninterruptible Power Systems

True on-Line "Double conversion" Technology 1 Phase in, 1 Phase out
3 to 10kVA

- On – line "double conversion" technology
- Real Digital Signal Processor (DSP) controlled IGBT technology
- Wide input voltage range (80 V – 280 V)
- Increased Power Factor (> 0.99)
- Info Charger; Intelligent temperature controlled
- Battery charging extends battery life
- Low Total Harmonic Distortion (THD) Level
- Small dimensions
- Smart fan speed regulation
- Redundant operation
- Artificial intelligence algorithms to improve reliability and technical performance
- LCD display
- Advanced communication possibility via RS – 232 and relay interface
- Management and monitoring software available for all operating systems
- SNMP support





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TECHNICAL SPECIFICATIONS

TYPE					
Tower Model	SD1103	SD1105	SD1106	SD1107	SD1110
19" Rack Mount Model	RMSD1103	RMSD1105	RMSD1106		
Power (kVA)	3	5	6	7.5	10
INPUT					
Nominal Voltage	220 V / 230 V				
Minimum Voltage	80 V				
Minimum Voltage (at full load)	157 V				
Maximum Voltage	280 V				
Frequency	45 - 65 Hz				
Power Factor	> 99 %				
Input Current Harmonics	< 6 %				
OUTPUT					
Nominal Voltage	220V / 230V (adjustable)				
Nominal current	13.6 A	23 A	27 A	34 A	45.5 A
Wave Form	Pure Sine Wave				
Total Harmonic Distortion at 100% linear load	< 2.5 %				
at 100% non-linear load	< 3.6 %				
Frequency	50 Hz or 60 Hz (adjustable)				
Frequency Tolerance (line-synchronized)	0.01%				
Static Voltage Regulation (0%-100% load)	< 1 %				
Crest Factor	3				
Overload (on mains)(0-150% overload)		63 sec		35 sec	49 sec
Overload (on battery)(0-150% overload)		63 sec		35 sec	49 sec
Total Efficiency	> 91.5 %				
Greenmode efficiency	> 97 %				
BATTERY					
Type	Maintenance Free Dry Type				
Number of Batteries	14		20		32
Back up time (at nominal load)	Internal Up to 25 minutes	Internal Up to 22 minutes	Internal Up to 15 minutes	Internal Up to 10 minutes	Internal Up to 8 minutes
Recharging Time	< 4h / 8 h				
Discharge Current Wave	< 10 %				
Others	Heat compensated battery charging artificial intelligence based capacity. Cut off Voltage according to Changing Load. Battery bar independent of load.				
BY-PASS					
Voltage Tolerance	10% (adjustable)				
Frequency Tolerance	3 Hz (adjustable)				
Transfer Time	0 ms				



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PROTECTION

Overload Protection	Bypass transfer time is calculated by simulating a temperature related model of a fuse
Short Circuit Protection	Acts as the ideal current source during the short circuit time
Other Protection	Against Excessive (Heat, Voltage, Current) Intense Battery discharge

COMMUNICATION INTERFACE

RS 232	Isolated according to EN60950
Free Contact	Isolated according to EN60950

ENVIRONMENT

Operating Temperature	0 °C.....+40 °C
Storage Temperature	15 °C.....+55 °C
Proposed Temp. to extend battery life	20 - 25 °C
Humidity	< 95 %
Audible Noise at 1 m	<50 dB <55 dB

PHYSICAL SPECIFICATIONS

Tower Type					
Net Weight (kg) (without battery)	43.1 KG	48.4 kg	49 kg	50.9 kg	54.8 kg
Dimensions (cm) (W x D x H)		27 x 67 x 68			27 x 73 x 78
19" Rack Mount Type					
Net Weight (kg) (without battery)	29 kg	31.7 kg	32.1 kg		
Dimensions (cm) (W x D x H)		48 x 54 x 22			

STANDARDS

Safety	EN50091-1
EMC	EN50091-2
Performance	EN62040-3, EN50091-3
Protection Class	IP 20