

SAVER DSP SERIES

Uninterruptible Power Systems

True On - Line "Double conversion" Technology | Phase in, | Phase out
3 to 10 kVA



TESID
Innovation
and
Creativity
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Achievement
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2002

On – line "double conversion" technology

Real Digital Signal Processor (DSP) controlled IGBT technology

Wide input voltage range (80 V – 280 V)

Increased Power Factor (> 0.98)

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

inform
"Uninterruptible Energy"



SAVER DSP SERIES 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		
Minimum Voltage			80 V		
Minimum Voltage (at full load)			150V		176 V
Maximum Voltage			280V		
Frequency			45 - 65 Hz		
Power Factor			> 98 %		
Input Current Harmonics			< 6 %		
OUTPUT					
Nominal Voltage			220V (adjustable)		
Wave Form			Sinus		
Total Harmonic Distortion			< 2 %		
Frequency			50 Hz or 60 Hz (adjustable)		
Frequency Tolerance (line-synchronized)			0.005 %		
Voltage Regulation (Static)			1 %		
Crest Factor			3		
Overload (on mains)			> 30 s (at 150 % load)		
Overload (on battery)			> 30 s (at 150 % load)		
Total Efficiency			> 91 %		
Greenmode efficiency			> 97 %		
BATTERY					
Type	Maintenance Free Dry Type				
Number of Batteries	14	20		32	
Back up time (at nominal load)	Internal up to 35 minutes	Internal up to 22 minutes	Internal up to 15 minutes	Internal up to 10 minutes	Internal up to 7 minutes
Recharging Time	< 4h / 6 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				
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	Insulated according to EN60950				
Free Contact	Insulated according to EN60950				
ENVIRONMENT					
Temperature	0 - 40 °C				
Proposed Temp. to extend battery life	20 - 25 °C				
Humidity	< 95 %				
Audible Noise AT 1m	50 dB				
PHYSICAL					
Tower Type					
Net Weight (kg) (without battery)			45 kg		55 kg
Dimensions (mm) W x D x H	270 x 650 x 700				
19" Rack Mount Type					
Net Weight (kg) (without battery)	32 kg	33 kg	34 kg		
Dimensions (mm) W x D x H	445 x 500 x 222				
STANDARDS					
Safety	EN50091-1				
EMC	EN50091-2				
Protection Class	IP 20				

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