

# Saver DSP Series

Uninterruptible Power Systems

On-Line "Double Conversion Technology"

1 Phase in, 1 Phase out, 3 to 10kVA (Tower & Rack Models)



Saver DSP Rack Type

Rack Type Battery Cabinet

- On-line 'double conversion' technology
- Real Digital Signal Processor (DSP) controlled IGBT technology
- Wide input voltage range ( 80 V - 280 V)
- Input Power Factor Correction PFC( >0,99 )
- Low Total Harmonic Distortion ( THD ) Level
- Intelligent battery management system extends the life time of batteries
- Transformerless Design
- Small dimensions
- Smart fan speed regulation
- 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
- Rack Version Available

## Accessories

### Communication

- AS 400
- EPO (Emergency Power Off)
- Relay Interface Board
- UPSMAN (Management Software)\*
- Multiserver Shutdown Licence\*
- External SNMP Adapter \*
- SNMP Adapter Net Agent Mini DP 522\*
- SNMP Adapter CS121BL\*

- Remote Monitoring Panel& cable For Remote Panel\*

\*Available for rack mounted version

### Other

- Additional Charging Set ( 450W )
- Additional Filter
- Transformer

### Battery Cabinets

UPS looking battery Cabinets

- BC1714 (14 pcs 12V 18ah)
- BC1426 (14 pcs 12V 25ah)
- BC0740 (40 pcs 12V 7ah)
- BC1720 (20 pcs 12V 18ah)
- BC2620 (20 pcs 12V 25ah)
- BC1232 (32 pcs 12V 12ah)

Eco Cabinets (different battery configurations available)

- BC00, BC10, BC20, BC40

Rack Mounted Battery Cabinets\*

- RM BC 0714 - 3U (14 pcs 12V 7ah)
- RM BC 1214 - 5U (14 pcs 12V 12 ah)
- RM BC 0720 - 3U (20 pcs 12V 7ah)
- RM BC 1220 - 5U (20 pcs 12V 12 ah)



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# Saver DSP Specifications

TYPE						
Tower Model	SD1103		SD1105	SD1106	SD1107	SD1110
19" Rack Mount Model	RMSD 1103		RMSD 1105	RMSD 1106		
Power (kVA)	3		5	6	7,5	10
INPUT						
Nominal Voltage	220V/230V					
Minimum Voltage	80V					
Minimum Voltage ( At Full Load )	160V					
Maximum Voltage	280V					
Frequency	45-65 Hz					
Power Factor	>0,99					
Input Current Harmonics	< 6 %					
OUTPUT						
Power Factor	0,7					
Nominal Voltage	220V / 230V (Adjustable)					
Nominal current	13,6A	23A	27A	34A	45,5A	
Wave Form	Pure Sine Wave					
Total Harmonic Distortion						
At 100% Linear Load	<2,5%					
At 100% Non-Linear Load	<3,6%					
Frequency	50Hz or 60Hz (Adjustable)					
Frequency Tolerance (Line Synchronized)	0,005 %					
Static Voltage Regulation (0%-100% Load)	<1%					
Crest Factor	3					
Overload (On Mains)(150% Overload)	63 Sec			35 Sec	49 Sec	
Overload (On Battery)(150% Overload)	63 Sec			35 Sec	49 Sec	
Total Efficiency	> 91,5%					
Greenmode Efficiency	> 97%					
BATTERY						
Type	Maintenance-Free Lead Acid Batteries					
Quantity (pcs)	14	20				
Back Up Time ( At Nominal Load )	Internal Up To 25 Min At Tower Model	Internal Up To 22 Min At Tower Model	Internal Up To 15 Min At Tower Model	Internal Up To 10 Min At Tower Model	Internal Up To 9 Min At Tower Model	
Recharging Time	< 4 h / 8 h					
Discharge Current Wave	< 10%					
DISPLAY						
LED Panel	Line, By Pass, Battery, Inverter, Overload, Fault Indicators					
LCD Panel	Load%, Battery Temperature, Input & Output & Battery Voltages, Output Frequency					
STATIC BY PASS						
Voltage Tolerance	10% (Adjustable)					
Frequency Tolerance	3Hz (Adjustable)					
Transfer Time	0 ms					
PROTECTION						
Overload Protection	By pass 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 (Communication Ports)	RS 232					
Dry Contact Signals	Ups Shutdown,Mains Failure, Low Battery, By Pass Active, Summary Alarm					
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		
Protection Class	IP 20					
PHYSICAL SPECIFICATIONS						
Tower Type						
Net Weight ( Without Battery )	43,1kg	48,4kg	49kg	50,9kg	54,8kg	
Dimensions (cm) (WxDxH)	27x67x68				27x73x78	
19" Rack Mount Type						
Net Weight ( Without Battery )	20	24			N/A	
Dimensions (cm) (WxDxH)	48,3x59x13,3			N/A		
STANDARDS						
Standards	EN 62040-1-1 (Safety), EN 62040-2(EMC)					

