

## Saver Plus DSP

3 Phase In - 1 Phase Out / 15kVA - 20kVA

- On-line 'double conversion' technology
- Real Digital Signal Processor (DSP) controlled, IGBT technology
- Wide input voltage range (140V-480V)
- Input Power Factor Correction PFC (PF: >0.97)
- Intelligent Battery Management System extends the life time of batteries
- Transformerless Design
- Small Dimensions
- Manual Bypass
- LCD display
- RS 232 and relay interface
- Management and monitoring software available for all operating systems and SNMP support



### TECHNICAL SPECIFICATIONS

MODEL	SD3115	SD3120
Power	15kVA	20kVA
<b>INPUT</b>		
Nominal Voltage	380 V / 400V / 415V 3Phase, N	
Minimum Voltage	140V 3Phase, N	
Minimum Voltage (at full load)	260V 3Phase, N	
Maximum Voltage	480V 3Phase, N	
Frequency	50 - 60Hz (45 to 65 Hz)	
Nominal Current	17.4 A / phase	23.3 A / phase
Maximum Current	53 A peak / phase	71 A peak / phase
Power Factor	>0.97	
<b>OUTPUT</b>		
Power Factor	0.7	
Nominal Voltage	220V / 230V (adjustable)	
Wave Form	Sinus	
Total Harmonic Distortion	< 3%	
Frequency	50Hz or 60Hz (adjustable)	
Voltage Regulation (Static)	1%	
Crest Factor	3	
Overload	> 30s (at 150 % load)	
Total Efficiency	> 91%	
<b>BATTERY</b>		
Type	Maintenance-free lead acid batteries	
Quantity per string	32pcs 12V Batteries	
Voltage	384VDC	
Recharge Time for Internal Batteries	< 4 h	
Discharge Current	< 10%	
Internal Batteries (Optional)	12Ah	
Warning	Audible Buzzer through the end of Battery Discharge	
<b>DISPLAY</b>		
LED Panel	Line, Bypass, Battery, Inverter, Overload, Fault Indicators	
LCD Panel	Load%, Battery Temperature, Input&Output&Battery Voltages, Output Frequency	
<b>STATIC BY-PASS</b>		
Voltage Tolerance	10% (adjustable)	
Frequency Tolerance	3Hz (adjustable)	
Transfer Time	0 ms	
<b>PROTECTION</b>		
Protections	Overload Protection, Short Circuit Protection, High Temperature, Over Voltage, Over Current	
<b>COMMUNICATION INTERFACE</b>		
Interface (Communication Ports)	RS 232	
Dry Contact Signals	Ups shutdown, mains failure, low battery, by-pass active, summary alarm	
<b>ENVIRONMENT</b>		
Temperature	0 - 40 °C	
Suggested Temp. to extend battery life	20 - 25 °C	
Humidity	0 - 95% (non-condensing)	
Audible Noise (from 1m distance)	< 55 dB	
Protection Class	IP 20	
<b>PHYSICAL SPECIFICATIONS</b>		
Net Weight - without battery (kg)	103.5	108
Dimensions (mm) (WxDxH)	430x870x970	
<b>STANDARDS</b>		
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC)	
<b>ACCESSORIES</b>		
Optional	External SNMP, Monitoring and Management Software, Remote Monitoring Panel, Additional Charging Set, Internal Galvanic Isolation Transformer	