

Saver Plus DSP Series

On-Line "Double Conversion" Technology
3Phase in / 1Phase out - 15kVA to 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 (>0,97)
- ▶ Intelligent Battery Management System extends the life time of batteries
- ▶ Transformerless Design
- ▶ Small Dimensions
- ▶ Artificial intelligence algorithms to improve reliability and technical performance
- ▶ Manual Bypass
- ▶ LCD display
- ▶ RS 232 and relay interface
- ▶ Management and monitoring software available for all operating systems and SNMP support



Saver Plus DSP Series Technical Specifications

MODEL	SD3115	SD3120
Power	15kVA	20kVA
INPUT		
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	
OUTPUT		
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%	
BATTERY		
Type	Maintenance-free lead acid batteries	
Quantity per string	32pcs 12V Batteries	
Voltage	384VDC	
Recharge Time for Internal Batteries	< 4 h	
Discharge Current Wave	< 10%	
Internal Batteries (Optional)	12Ah	
Warning	Audible Buzzer through the end of Battery Discharge	
DISPLAY		
LED Panel	Line, Bypass, 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		
Protections	Overload Protection, Short Circuit Protection, High Temperature, Over Voltage, Over Current	
COMMUNICATION INTERFACE		
Interface (Communication Ports)	RS 232	
Dry Contact Signals	Ups shutdown, mains failure, low battery, by-pass active, summary alarm	
ENVIRONMENT		
Temperature	0 - 40 °C	
Suggested Temp. to extend battery life	20 - 25 °C	
Humidity	up to 95% (non-condensing)	
Audible Noise (from 1m distance)	< 55 dB	
Protection Class	IP 20	
PHYSICAL SPECIFICATIONS		
Net Weight - without battery (kg)	125	130
Dimensions (mm) (WxDxH)	270x730x780	430x820x970
STANDARDS		
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC)	
ACCESSORIES		
Optional	External SNMP, Monitoring and Management Software, Remote Monitoring Panel, Additional Charging Set, Internal Galvanic Isolation Transformer	