

# SUPERIORplus

Uninterruptible Power Supply  
10-120kVA



Cold Start High Input Power Factor High efficiency up to 94% External REPO switch input 10 years spare parts support IGBT / Transformerless Technology DSP Control.

## Technical Specifications

- High efficiency (96%) with IGBT rectifier and 3L Inverter
- High efficiency operation with Eco mode (98%)
- Active input power factor correction (Pf 1)
- Active input current harmonics correction (TH DI <4%)
- Low output voltage THD (<2%)
- Smart charger can increase battery life by 40%
- Parallel operation
- Temperature compensated battery charging system
- Generator-compatible operation, external by-pass feature (Optional)
- Easily synchronized with external sources
- Remote monitoring and management software, programmable dry contacts
- Output by-pass overload and short-circuit protection
- Standard non-maintenance by-pass
- Small footprint with compact dimensions
- Low installation and operating costs
- Smart fan control (depending on temperature and load)
- Wide input voltage range
- Real-time status memory

**On-line  
3 Phase Input  
3 Phase Output**

**Power Factor: 1  
kVA=kWatt**



# ETOP

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## Specifications

Model (3 Ph/ 3 Ph)	SP 10 kVA	SP 15 kVA	SP 20 kVA	SP 30 kVA	SP 40 kVA	SP 60 kVA
Nominal Active Power (Watt)	10.000	15.000	20.000	30.000	40.000	60.000
<b>RECTIFIER INPUT</b>						
Nominal Voltage	380/400/415 V (Ph-Ph) 3Ph+N					
Input Voltage Range (VAC) (at 50% Load)	Min. -35% / Max +25%					
Input Voltage Range (VAC) (at full Load, with battery charging)	Min. -18% / Max +18%					
Frequency (Hz)	50 /60 ± % 5					
Input Current Distortion Rate	< 5%					
Power Factor	> 0.99					
<b>BYPASS</b>						
Nominal Voltage	380/400/415 V (Ph-Ph) 3Ph+N					
Voltage Tolerance	± 10%					
Frequency Tolerance (Hz)	± 10%					
Transfer Time (ms)	< 0.01					
<b>OUTPUT</b>						
Nominal Voltage (VAC) (Ph-Ph)	380/400/415 V (Ph-Ph - Adjustable)					
Power Factor	1					
Efficiency	Up to 96% (*)					
Wave Form	Sinusoidal					
Frequency (Hz)	50 or 60 (Adjustable)					
Frequency Tolerance (Battery Operation)	0.01%					
Voltage Regulation (Static)	±1%					
Output Voltage Change at unbalance load	< % 0.5					
Maximum phase angle variation	< 0.1°					
Crest Factor	3:1					
Overload Protection (sec)	60 sec (at 100-125% Load) / 10 sec (at 126-150% Load)					
Total Harmonic Distortion	Linear load < %3 / Non linear load <% 5					
<b>BATTERY</b>						
Battery Type	Maintenance-Free Lead Acid Batteries					
Battery String (Blocks)	20-30	30			40	
Protections	Overload Protection, High Temperature, Input Over Voltage, Input & Output Over Current, Back-Feed Protection, Intelligent Charging Algorithm – Deep Charge Protection – Battery Test (Automatic/ Manual), Short- Circuit Protection					
<b>COMMUNICATION</b>						
Standard Interface	RS232 – EPO – External cabinet temperature					
Options	Modbus - 4 Programmable Relay-Contacts - SNMP					
<b>ENVIRONMENT</b>						
Operating Temperature Range (°C)	0 - 40 °C					
Battery Temperature Range (°C)	20 C - 25 °C (Recommended For Longer Battery Life)					
Maximum Altitude without Derating (m)	1000					
Relative Humidity Range	% 20-95 (Non-Condensing)					
Acoustic Noise (dBA)	< 55 (at 1m)					
<b>PHYSICAL</b>						
Dimensions (HxWxD) (mm)	855 x 300 x 715		990x 300 x 865	1200x430x960	1000X450X900	
Weight (kg) (without battery)	53 Kg Pallet 44 Kg net		70 Kg Pallet 62 Kg net	75 Kg Pallet 67 Kg net	90 Kg Pallet 80 Kg Net	105 Kg Pallet 95 Kg net
Paint	RAL 9005					
<b>STANDARDS</b>						
Safety	IEC/EN 62040-1					
EMC	IEC/EN 62040-2					
Performance	IEC/EN 62040-3					
Design	ISO 9001:2008 - ISO 14001:2004					
Protection Class	IP 20 (other IP as option)					