



## Savior Three-Phase Online UPS 10 - 30 kVA Technical Specifications

GENERAL			
Capacity	10 kVA	20 kVA	30 kVA
Power Factor	0.9		
Technology	Double Conversion Online UPS with DSP Control		
INPUT			
Voltage	380/400/415 Vac (or 208/480/600 Vac)		
Voltage Range	±20% at Full Load		
Frequency	50 Hz / 60 Hz ±10%		
Input Power Factor	≥0.99 at Nominal Voltage and Full Load		
OUTPUT			
Output Voltage	380/400/415 Vac (or 208/480/600 Vac)		
Voltage Accuracy	±1%		
Crest Factor	3:1 at Full Load		
Transfer Time	0 ms (from battery)		
THDv	≤3% Linear Load, ≤5% Non-linear Load		
Waveform	Pure Sinewave		
Overload Operation	100%-125% for 5 min, 125%-150% for 60 Sec, >150% Transfer to Bypass		
Efficiency	93% AC Mode, >98% Eco Mode		
Protection	Short Circuit, Over Load, Battery Fuse, Bypass, Over Temperature Protections		
BATTERY (STANDARD MODEL)			
Battery Cap. and Qty	20x9 Ah	40x9 Ah	60x9 Ah
Max Charging Current	2 Amp		
Recharge Time	0-90%, 6 Hours Typical		
BATTERY (LONG RUN MODEL)			
Battery Qty	16 or 20 pcs		
Max Charging Current	8 Amp (no internal batteries)		
Recharge Time	Depends on the External Batteries		
DISPLAY AND ALARMS			
Display	LCD Panel		
Displayed Parameters	Input Voltage/Frequency, Output Voltage, Output Phase Current/Frequency, Battery Status, Load Status, Alarm Code, and Fault Codes		
Communication	USB, RS232 with Software CD, SNMP (Optional)		
SAFETY and STANDARDS			
Standards	IEC/EN62040-1, IEC/EN60950-1, ISO 9001, CE		
EMC	EN/IEC 62040-2, EN/IEC 62040-3		
ENVIRONMENT			
Heat and Humidity	-10 C° / + 60 C°, 0 - 90% (non-condensing)		
Noise Level	Less than 60 dB at 1 mt		
Protection Level	IP21		
STANDARD MODEL			
Size (WxDxH) [cm]	35x80x90	50x80x95	
Weight	120 kg	160 kg	240 kg
LONG RUN MODEL			
Size (WxDxH) [cm]	40x70x75		
Weight	61 kg	65 kg	70 kg

### Highlights

- True Double Conversion
- Microprocessor Control
- Transformer-free Design
- IGBT PWM Controlled
- Input Power Factor Correction
- Output Power Factor 0.9
- Wide Input Voltage
- Converter Mode Available
- ECO Mode for Energy Saving
- Generator Compatible
- Smart SNMP, USB, RS-232
- Comprehensive Display
- Easy Monitoring and Access of UPS Status
- Soft Start Capacity
- Maintenance and Automatic Bypass
- 10 Years Battery Life Time
- 2 Years Warranty

### General Features

Savior three-phase true double conversion design Online UPS is for industrial equipment, servers and commercial buildings, vital important equipment such as medical analysis equipment, operating rooms in hospitals, ultrasound equipment, security systems, all kinds of automation systems, computer networks and communications where three-phase supply is needed.

Savior 3 Phase input, 3 Phase output UPS has 0.9 output power factor with high efficiency. N+X parallel redundancy solution is available to increase the system reliability. For IT server room, surveillance, MRT stations & factory applications parallel redundant operation is a must.