

## SmartOnline SV Series 140kVA Large-Frame Modular Scalable 3-Phase On-Line Double-Conversion 208/120V 50/60 Hz UPS System

MODEL NUMBER: **SV140KL7P**



3-phase 140kVA UPS system offers network-grade power protection in a highly configurable, modular and scalable large-chassis rack-width frame. Pre-installed WEBCARDLX network interface allows full remote access 24/7.

### Description

The SV140KL7P SmartOnline® SV Series 140kVA 3-Phase On-Line Double-Conversion UPS System delivers true scalability and offers the highest level of secure, uninterrupted power protection. Featuring a modular, scalable design with high-efficiency voltage and frequency independent (VFI) operation, this on-line UPS system is ideal for protecting a variety of critical IT systems.

The SV140KL7P includes pre-installed input, bypass and output breakers, as well as a static transfer switch (STS) and seven included 20kVA SV20PM power modules. Space is included for one additional user-installable SV20PM power module for N+1 fault tolerance. Each power module is rated at 0.9 power factor for maximum power to the connected load.

The Java-free HTML5-based WEBCARDLX interface enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network.

With up to 92% efficiency in standard mode and up to 99% efficiency in optional economy mode, this 140kVA UPS system helps you reduce operating and cooling costs. Automatic and manual bypass options keep connected equipment operational during routine maintenance or critical power module failure. Batteries are not included. External  $\pm 120$ VDC battery cabinets, such as Tripp Lite's BP240V370, are sold separately.

### Features

### Highlights

- Scalable capacity up to 140kVA with N+1 redundancy
- Economy mode option helps reduce operating and cooling costs
- Pre-installed WEBCARDLX network interface for 24/7 remote access
- DSP/IGBT technology and 1% output voltage regulation
- Batteries not included; external battery cabinets sold separately

### Package Includes

- SV140KL7P SmartOnline SV Series 140kVA 3-Phase On-Line Double-Conversion UPS System
- Pre-installed WEBCARDLX network interface
- (7) SV20PM 20kVA power modules (shipped separately)
- Owner's manual

#### **140kVA 126kW 3-Phase Large-Chassis UPS System**

- Supports 208/120V or 220/127V AC 50/60Hz Wye 4-wire plus Earth hardwire input and output wiring
- Dual hardwire input design enables operation from up to 2 power sources
- Network-grade sine-wave AC output with 1% output voltage regulation and less than 1.5% output total harmonic distortion
- Tested to UL 1778 (U.S.), CSA (Canada) and NOM (Mexico) standards
- High 0.9 power factor for maximum power to the connected load
- Batteries not included—external  $\pm 120$ VDC battery cabinets, such as Tripp Lite's BP240V370, sold separately

#### **Pre-Installed WEBCARDLX Network Interface**

- Allows full remote access for power monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH
- Supports 10/100 Mbps auto-sensing for communication with an Ethernet network
- Optional EnviroSense2 sensors (sold separately) enable site monitoring of temperature, humidity and contact-closure status
- No Java required

#### **Modular, Scalable Design for Maximum Flexibility**

- Modular configuration with hot-swappable power modules enables easy and fast maintenance with zero downtime
- Open slot for 1 additional 20kVA SV20PM power module for N+1 fault tolerance

#### **Optional Economy Mode**

- Up to 99% efficient in optional economy mode to lower operating and cooling costs

#### **Wide Input/Narrow Output Voltage Operating Range**

- Enables full continuous online operation during brownouts as low as 156V and overvoltages up to 253V
- Regulates output voltage within 1% of the selected nominal output voltage in on-line double-conversion mode

#### **Advanced IGBT Inverter with Digital Signal Processor (DSP) Technology**

- Provides for less than 3% input total harmonic distortion (THDi) to support 1:1 generator sizing and prevent the need to oversize generator systems relative to UPS capacity

#### **Automatic and Manual Bypass Options**

- Keep connected equipment operational during routine maintenance or critical power module failure

## **Specifications**



<b>OVERVIEW</b>	
UPC Code	037332209498
UPS Type	On-Line
<b>INPUT</b>	
Rated input current (Maximum Load)	SV140KL7P 140kVA Configuration: 420A; Maximum 140kVA Large Chassis Configuration: 420A; 330A maximum inrush current
Nominal Input Voltage(s) Supported	120/208V 3-PH Wye; 127/220V 3-PH Wye
Nominal Input Voltage Description	Set of two hardwire input connections enables 3-Phase Wye, 4 wire (3P, N, G) inputs from two separate power sources
UPS Input Connection Type	Hardwire
Input Circuit Breakers	MAIN and ALTERNATE AC inputs are each protected by 630A 3 pole magnetic breakers
Input Phase	3-Phase
Input Frequency	40 to 70Hz (online mode); 50/60Hz Auto-selectable
Power Factor (Input)	0.99 (full load)
THDi	Less than 3% (full linear load)
<b>OUTPUT</b>	
Output Volt Amp Capacity (VA)	140000
Output kVA Capacity (kVA)	140
Output Watt Capacity (Watts)	126000
Output kW Capacity (kW)	126
Output Capacity Details	OVERLOAD CAPABILITY: Supports 105-110% load for 1 hour, 111-125% load for 10 minutes, 126-150% for 1 minute and Over 150% for 200ms before switching to Bypass; Online operation resumes when load is reduced to 100% or less
Power Factor	0.9
Crest Factor	3:1
Nominal Voltage Details	Output THD full resistive load: <1.5%; Output THD non-linear load: <4%; Max DC offset: $\pm 50$ mV; Max Phase angle deviation: 2°; Max Voltage unbalance deviation: 1%; Output short-circuit protection included
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion
Frequency Compatibility Details	Auto-selectable, user adjustable
Output Receptacle Details	Output wiring: 3P, N, E
Output Circuit Breakers	630A 3 pole magnetic breaker
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120/208V 3-PH Wye; 127/220V 3-PH Wye
Output Receptacles	Hardwire





Front Panel LCD Display	145mm front panel LCD display with directional scroll and select buttons offers complete operating status display, plus setting and selection options for all UPS functions
Switches	Front panel buttons include ESC (menu escape), UP/LEFT (menu up / left), DOWN/RIGHT (menu down / right), ENTER (confirm selection), HOME (return to home screen) and POWER (on/off power control); Also includes Manual Bypass switch
Alarm Cancel Operation	Audible alarms can be muted using on-screen prompts
Audible Alarm	Unique audible alarms for POWER ON / POWER OFF (alarm sounds for 2 seconds), BATTERY MODE (alarm sounds every 2 seconds), LOW BATTERY (alarm sounds every 0.5 seconds), UPS ALARM (alarm sounds every 1 second), UPS FAULT (continuous alarm)
LED Indicators	Front panel LED indicators represent INPUT (green), BYPASS (amber), INVERTER (green), BATTERY (red) and ALARM (red)
<b>SURGE / NOISE SUPPRESSION</b>	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	2496
AC Suppression Joule Rating Details	2496 joules (Ph-Ph), 2496 joules (Ph-N), 1872 joules (N-E)
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
Primary UPS Depth (mm)	1,100
Primary UPS Height (mm)	2,010
Primary UPS Width (mm)	600
Shipping Dimensions (hwd / cm)	190.50 x 73.66 x 121.92
Shipping Dimensions (hwd / in.)	75.00 x 29.00 x 48.00
Shipping Weight (kg)	478.54
Shipping Weight (lbs.)	1055.00
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	200.99 x 59.99 x 109.98
UPS Power Module Dimensions (hwd, in.)	79.13 x 23.62 x 43.3
UPS Power Module Weight (kg)	514.37
UPS Power Module Weight (lbs.)	1134
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	0° to +40°C (+32° to +104°F); De-rates to 90% capacity at 35°C / 95°F and 80% capacity at 40°C / 104°F
Storage Temperature Range	-15° to +60°C (+5° to +140°F)





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Product Warranty Period (U.S. & Canada)	1-year limited warranty
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	1-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty
3-Phase Warranty Statement	<u><a href="#">Tripp Lite 3-Phase UPS Factory Warranty</a></u>

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