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FEATURES:

- Stand alone and rack-mount UPS
- True on-line double conversion technology
- Wide-input voltage range for harsh environments
- Input Power Factor correction 0.99
- Output power factor o.9
- IGBT PWM rectifier & inverter technology
- Automatic bypass for fault tolerance
- Frequency converter mode
- · Energy-saving, ECO mode operation
- Generator compatible
- Friendly LCD Display
- Selectable output voltage via LCD panel
- Multiple communication ports: USB/ RS-232 and SNMP (optional)

BENEFITS:

- High uptime
- High efficiency, energy-saving ECO mode
- Extends battery lifespan
- Microprocessor control optimizes reliability
- Ease of maintenance



True on-line double conversion technology

A true on-line double conversion UPS is a unit where the inverter is always ON. Therefore, it provides clean, high-level quality power to protect mission-critical applications such as servers, sensitive networks, data centers, telecom devices, medical equipment, and industrial processes.

Wide-input voltage range for harsh environments

The UPS provides stable power to connected devices ever under unstable electrical environments. Please refer to individual product specifications for detailed information

Frequency converter mode

The UPS can be used as frequency converter from 50 Hz input to 60 Hz output, or from 60 Hz input to 50 Hz output to suit the require-ments of power-sensitive equipment.

Energy-saving ECO mode operation

ECO mode is designed to offer high efficiency reducing energy usage and cost. The UPS powers the load via its static bypass while returning to on-line double conversion mode on a timely manner when needed.

Generator Compatible:

The UPS through its robust IGBT rectifier has full compatibility with generators and ensures clean and uninterrupted power to the loads.

Multiple communication ports: USB/RS-232 and SNMP (optional)

The UPS units employ a wide range of advanced communication protocols (USB, RS-232, and SNMP), which provide remote management capabilities over the network and enable centralized management.

LCD Display Panel

- Remaining backup time information -
- Configuration and Fault information
- Mute operation
- Output & Battery voltage information
- Load information
- Mode operation information
- Battery information
- Input & Battery voltage information



Optional SNMP (Integrated with specialized software)

- Allows control and monitoring of multiple UPSs through RJ-45 network connection
- Real-time dynamic graphs of UPS data (voltage, frequency, load level, battery level)
- Warning notifications via audible alarm, broadcast, mobile messenger, e-mail and SNMP traps
- Historic data log stored in centralized PC database
- Simple firmware upgrade with one click
- Password security protection and remote access management

MODEL

- Supports optional environmental monitoring detector for temperature, humidity and smoke
- Supports the following protocols: http, SNMP, SNMP V2



- Allows control and monitoring of multiple UPSs via LAN and INTERNET
- User-friendly power analysis graphs
- Real-time dynamic graphs of UPS data
- Safely OS shutdown and protection from data loss during power failure
- Warning notifications via audible alarm, broadcast, mobile messenger, and e-mail
- Scheduled UPS on/off, battery test, programmable outlet control, and audible alarm control
- Password security protection
- and remote access management
 Supports multiple OS and local languages

SA1P2LVW o SA1P2HVW





SA1P3LVW o SA1P3HVW





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SA1P1LVW o SA1P1HVW

LLENGER SERIES 1 KVA, 2 KVA, 3 KVA and Alone UPS Technical Specification	

Sol 150 VAC or 120 - 300 VAC @ 50% load	Phase		Single phase with ground			
Nominal Voltage	Capacity	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W		
S0-150 VAC Or 120-300 VAC @ 150 VAC D 50% load	INPUT					
Voltage	Nominal Voltage	100/110/115/120/127 VAC or 200/208/220/230/240 VAC				
Section Sect	Voltage Range					
Power Factor	Voltage Natige					
Rectifier	Frequency Range	40-70 Hz (Selectable)				
OUTPUT OUTPUT Voltage 100/110/115/120/127VAC or 200/208/220/230/240 VAC Voltage Regulation ± 1% Frequency Range (Synchronized Range) 47 - 53 Hz or 57 - 63 Hz Frequency Range (Synchronized Range) 50/60 Hz ± 0.5 % Current Crest Ratio 3.1 Harmonic Distortion (THDV) Linear Load s 5 %; Non-linear Load s 6 % Transfer Time Zero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY Pure Sine Wave AC Mode 88% 89% 90% Battery Mode 83% 85% 88% Battery Wolde 83% 85% 88% Battery Type 12V/9 Ah 10 A 6 Numbers 2 4 6 7 Vipical Recharge Time 4 hours recover to 90% capacity 6 7 Charging Current 1.0 A 82.1 VDC ±1% 82.1 VDC ±1% INDICATORS 1.00 8.0 A VDC ±1% 82.1 VDC ±1% LCD Display Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators 8.0 A VDC	Power Factor	≥0.99, Nominal Voltage (100% load)				
Output Voltage 100/110/115/120/127 VAC or 200/208/220/230/240 VAC Voltage Regulation ±1% Frequency Range (Synchronized Range) 47-53 Hz or 57-63 Hz Frequency Range (Satt. Mode) 50/60 Hz ± 0.5 % Current Crest Ratio 3.1 Harmonic Distortion (THDV) Linear Load s 5 %; Non-linear Load s 6 % Transfer Time Zero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY AC Mode AC Mode 88% 89% 90% Battery Mode 83% 85% 88% Battery Wode 12V/9 Ah Numbers 2 4 6 Numbers 2 4 hours recover to 90% capacity Charging Voltage 27.4VDC ± 1% 54.7 VDC ± 1% 82.1 VDC ± 1% INDICATORS Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators ALARM Battery Mode Sounding every 4 seconds Low Battery Sounding every 4 seconds Sounding every 4 seconds Sounding every 4 seconds Low Battery Sounding every 5 second Continuously sounding Final Second Second S	Rectifier	IGBT				
Voltage Regulation	OUTPUT					
Frequency Range (Synchronized Range)	Output Voltage	100/110/115/120/127 VAC or 200/208/220/230/240 VAC				
Solfo Hz ± 0.5 % Solfo Hz ±	Voltage Regulation		± 1%			
Current Crest Ratio 3:1 Harmonic Distortion (THDv) Linear Load s 3 %; Non-linear Load s 6 % Transfer Time Zero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY AC Mode 88% 89% 90% Battery Mode 83% 85% 88% Battery Type 12V/9 Ah Numbers 2 4 6 Typical Recharge Time 4 hours recover to 90% capacity 6 Charging Current 1.0 A Charging Voltage 27.4VDC ± 1% 54.7VDC ± 1% 82.1VDC ± 1% INDICATORS INDICA	Frequency Range (Synchronized Range)		47 - 53 Hz or 57 - 63 Hz			
Harmonic Distortion (THDv) Carro (AC to DC) ; 4 ms (Inverter to Bypass)	Frequency Range (Batt. Mode)	50/60 Hz ± 0.5 %				
Transfer Time	Current Crest Ratio	3:1				
Pure Sine Wave	Harmonic Distortion (THDv)	Linear Load ≤ 3 % ; Non-linear Load ≤ 6 %				
### STRICENCY AC Mode	Transfer Time		Zero (AC to DC) ; 4 ms (Inverter to Bypass)			
AC Mode 88% 89% 90% 88K 88K 88K 88K 88K 88K 88K 88K 88K 88	Waveform					
AC Mode 88% 89% 90% 88K 88K 88K 88K 88K 88K 88K 88K 88K 88	EFFICIENCY					
BATTERY Battery Type 12V/9 Ah Numbers 2	AC Mode	88%	89%	90%		
Battery Type Numbers 2 4 4 6 Typical Recharge Time 4 hours recover to 90% capacity Charging Current 1.0 A Charging Voltage 27.4VDC±1% 54.7 VDC±1% 82.1 VDC±1% INDICATORS LCD Display Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators ALARM Battery Mode Low Battery Sounding every 4 seconds Low Battery Sounding every seconds Overload Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 282 x 145 x 220 397 x 145 x 220 421 x 190 x 318 Net Weight (kg) 9,8 17 27,6 ENVIRONMENT Running Humidity & Temperature Voise Level Sounding twice very second Sounding twice very second Sounding twice every second Fault Continuously sounding PHYSICAL Signature Sounding twice every second Fault Sounding twice every second Sounding twice every second Fault Sounding twice every second Fault Sounding twice every second Sounding twice every second Fault Sounding twice every second Fault Sounding every 4 seconds Sounding every 4 sec	Battery Mode	83%	85%	88%		
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Typical Recharge Time 4 hours recover to 90% capacity Charging Current 1.0 A 27.4VDC±1% 54.7 VDC±1% 82.1 VDC±1% INDICATORS LCD Display Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators ALARM Battery Mode Sounding every 4 seconds Low Battery Sounding every seconds Overload Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 282 x 145 x 220 397 x 145 x 220 421 x 190 x 318 Net Weight (kg) 9,8 17 27,6 ENVIRONMENT Running Humidity & Temperature Noise Level AMANGEMENT Smart RS-232 / USB Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix and MAC Optional SNMP Power management from SNMP manager and web browser STANDARDS & CERTIFICATIONS Quality ISO 9001; ISO 14001	Battery Type		12V/9 Ah			
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^{*} Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208 VAC

Sy-G reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Sy-G products previously or subsequently sold.



Voltage Range					
Impur Nominal Voltage					
Nominal Voltage	3000 VA / 2700 W				
At 50% load: 120-300 VAC or 60-145 VAC					
At 100% load: 180-280 VAC or 90-145 VAC	100/110/115/120/127 VAC or 200/208/220/230/240 VAC				
At 100% load: 180-280 VAC or 90-145 VAC	At 50% load: 120-300 VAC or 60-145 VAC				
Frequency Range 40-70 Hz (Selectable)	At 100% load: 180-280 VAC or 90-145 VAC				
Rectifier OUTPUT Output Voltage OUTPUT Output Voltage 100/110/115/120/127 VAC or 200/208/220/230/240 voltage Regulation ± 1% Frequency Range (Synchronized Range) Frequency Range (Batt. Mode) Current Crest Ratio 3:1 Harmonic Distortion (THDv) Transfer Time 2ero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY AC Mode 88% 88% 88% 88% 88% Battery Mode Battery Type 12V/ 9 Ah Numbers 2	≥ 0.99, Nominal Voltage (100% load)				
OUTPUT Output Voltage 100/110/115/120/127 VAC or 200/208/220/230/240 Voltage Regulation 1 1/8 Frequency Range (Synchronized Range) Frequency Range (Batt. Mode) Current Crest Ratio Harmonic Distortion (THDv) Linear Load ≤ 3 %; Non-linear Load ≤ 6 % Transfer Time Zero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY AC Mode 88% 89% Battery Mode 83% 87% BATTERY Battery Type 12V/9 Ah Numbers 2 4 Typical Recharge Time 4 hours recover to 90% capacity Charging Current 1.0 A Charging Voltage 1.0 A Charging Voltage 1.0 A Charging Voltage 1.0 Display UPS status, load level, Battery level, Input/Output voltage, Discharge ti ALARM Battery Mode Sounding every 4 seconds Low Battery Sounding every 4 seconds Low Battery Coverload Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature	40-70 Hz (Selectable)				
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Voltage Regulation ± 1% Frequency Range (Synchronized Range) 47 - 53 Hz or 57 - 63 Hz Frequency Range (Batt. Mode) 50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz Current Crest Ratio 3:1 Harmonic Distortion (THDv) Linear Load ≤ 3 %; Non-linear Load ≤ 6 % Transfer Time Zero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY AC Mode 88% 89% Battery Mode 83% 87% BATTERY Battery Type 12V/9 Ah Numbers 2 4 4 Typical Recharge Time 4 hours recover to 90% capacity Charging Current 1.0 A Charging Voltage 27.4VDC ± 1% 54.7VDC ± 1% INDICATORS LCD Display UPS status, load level, Battery level, Input/Output voltage, Discharge ti ALARM Battery Mode Sounding every 4 seconds Coverload Sounding every 4 seconds Overload Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 New March 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C					
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Transfer Time Zero (AC to DC); 4 ms (Inverter to Bypass) Waveform Pure Sine Wave EFFICIENCY AC Mode Battery Mode Battery Mode Battery Type Battery Type 12V/ 9 Ah Numbers 2 4 Typical Recharge Time Charging Current Charging Voltage 27.4VDC ± 1% INDICATORS LCD Display UPS status, load level, Battery level, Input/Output voltage, Discharge ti ALARM Battery Mode Sounding every 4 seconds Low Battery Overload Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 Net Weight (kg) 12 ENVIRONMENT Running Humidity & Temperature	3:1				
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Battery Type 12V/ 9 Ah Numbers 2 4 4 Typical Recharge Time 4 hours recover to 90% capacity Charging Current 1.0 A Charging Voltage 27.4VDC ± 1% 54.7 VDC ±1% INDICATORS LCD Display UPS status, load level, Battery level, Input/Output voltage, Discharge ti ALARM Battery Mode Sounding every 4 seconds Low Battery Sounding every seconds Overload Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C	88%				
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Battery Mode Low Battery Sounding every 4 seconds Sounding every seconds Sounding every seconds Sounding twice every second Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C	mer, and Fault conditions				
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Overload Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 Net Weight (kg) 12 ENVIRONMENT Running Humidity & Temperature Sounding twice every second 410 x 438 x 88 410 x 438 x 88 19 EVIRONMENT Running Humidity & Temperature	Sounding every 4 seconds				
Fault Continuously sounding PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C					
PHYSICAL Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C	- ·				
Dimensions (DxWxH) (mm) 310 x 438 x 88 410 x 438 x 88 Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C					
Net Weight (kg) 12 19 ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C					
ENVIRONMENT Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C	630 x 438 x 88				
Running Humidity & Temperature 20 - 90 % RH (Non-condensing) @ 0 - 40°C	29.3				
9 7 1					
Noise Level <50 dB @ 1 meter	< 50 dB @ 1 meter				
MANAGEMENT					
	Supports Windows® 2000/2003/XP/Vista/2008, Windows®7/8, Linux, Unix and MAC				
Optional SNMP Power management from SNMP manager and web b	Power management from SNMP manager and web browser				
STANDARDS & CERTIFICATIONS					
Quality ISO 9001 ; ISO 14001					
Compliance EN62040-3 ; EN61000 ; EN62040-2:2006 ; EN62040 -1: 2	EN62040-3 ; EN61000 ; EN62040-2:2006 ; EN62040 -1: 2008 ; CE				

 $^{^*\,}Derate\,to\,80\%\,of\,capacity\,in\,Frequency\,converter\,mode\,and\,to\,80\%\,when\,the\,output\,voltage\,is\,adjusted\,to\,100/200/208\,\,VAC\,\,bellion$

Sy-G reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Sy-G products $previously\,or\,subsequently\,sold.$



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