

FEATURES



1. Pure sine wave inverter
2. Built-in PWM solar charge controller
3. High efficiency pure sine wave inverter(PF=1)
4. Selectable input voltage range and frequency according to city power in your country
5. Charging current is settable according to your battery type
6. Configurable AC/Solar input priority via LCD setting
7. Compatible to mains voltage or generator power
8. Auto restart while AC is recovering
9. Overload and short circuit protection
10. Smart charging system optimizes battery performance



Technical Parameter

SVP-series

Model	SVP-1K-12V	SVP-3K-24V	SVP-3K-24V-PULS	SVP-5K-48V
Rated Power	1KVA/1KW	3VA/3KW	3VA/3KW	5VA/5KW
Output Voltage Regulation	230 VAC±5%			
Output Voltage Waveform	Pure Sine Wave			
Nominal Input Frequency	50 Hz/60 Hz (Auto detection)			
Peak Efficiency	93%			
Overload Protection	5s@≥150% load; 10s@ 105%~ 150% load			
Surge Capacity	2* rated power for 5 seconds			
Nominal DC Input Voltage	12Vdc	24Vdc	24Vdc	48Vdc
Cold Start Voltage	11.5Vdc	23Vdc	23Vdc	46Vdc
High DC Recovery Voltage	15Vdc	32Vdc	32Vdc	62Vdc
High DC Cut-off Voltage	16Vdc	33Vdc	33Vdc	63Vdc
No Load Power Consumption	<25W	<25W	<25W	<55W
Low Loss Voltage	170Vac+7V (UPS);90Vac+7V (Appliances)			
Low Loss Return Voltage	180Vac+7V (UPS);100Vac+7V (Appliances)			
Max AC Input Voltage	300Vac	300Vac	300Vac	300Vac
Output Short Circuit Protection	Circuit Breaker	Circuit Breaker	Circuit Breaker	Circuit Breaker
Transfer Time	10ms typical (UPS);20ms typical (Appliances)			
Utility Charging Mode				
AC Charging Current (Max)	20Amp(@V _{mp} =230Vac)	25Amp(@V _{mp} =230Vac)	60Amp(@V _{mp} =230Vac)	60Amp(@V _{mp} =230Vac)
Bulk Charging Voltage	Flooded Battery 14.6	29.2	29.2	58.4
	AGM / Gel Battery 14.1	28.2	28.2	56.4
Floating Charging Voltage	13.5Vdc	27Vdc	27Vdc	54Vdc
PWM Solar Charging Mode				
Charging Current	50Amp	50Amp	50Amp	50Amp
System DC Voltage	12Vdc	24Vdc	48Vdc	48Vdc
Operating Voltage Range	15~18Vdc	30~32Vdc	60~72Vdc	60~72Vdc
Max. PV Array Open Circuit Voltage	55Vdc	80Vdc	105Vdc	105Vdc
DC Voltage Accuracy	+/-0.3%	+/-0.3%	+/-0.3%	+/-0.3%
Max Charging Current (AC charger plus solar charger)	50Amp	70Amp	110Amp	110Amp

FEATURES



1. Pure sine wave inverter
2. Selectable input voltage range for home appliances and personal computers
3. Selectable charging current based on applications
4. Configurable AC/Solar input priority via LCD setting
5. Compatible to mains voltage or generator power
6. Auto restart while AC is recovering
7. Overload and short circuit protection
8. Smart battery charger design for optimized battery performance
9. Built-in MPPT solar charge controller



Technical Parameter

SVM-series

Model	SVM-1.5KVA-12V	SVM-1.5KVA-24V	SVM-3KVA-24V
Rated Power	1500W	1500W	3000W
Nominal Input Voltage	220/230/240Vac		
Low Loss Voltage	170Vac+7V (UPS);90Vac+7V (Appliances)		
Low Loss Return Voltage	180Vac+7V (UPS);100Vac+7V (Appliances)		
Max AC Input Voltage	300Vac		
Nominal Input Frequency	50 Hz/60 Hz (Auto detection)		
Output Short Circuit Protection	Circuit Breaker		
Output Voltage Waveform	Pure Sine Wave		
Output Voltage Regulation	220Vac/230 Vac/240Vac±5%		
Peak Efficiency	90%		
Surge Capacity	2* rated power for 5 seconds		
Nominal DC Voltage	12 VDC	24 VDC	24 VDC
Cold Start Voltage	11.5VDC	23 VDC	23VDC
High DC Recovery Voltage	15 VDC	31 VDC	31VDC
High DC Cut-off Voltage	16 VDC	32 VDC	32VDC
No Load Power Consumption	< 25W		
Saving Mode Power Consumption	< 10W		
Utility Charging Mode			
AC Charging Current	2/10/20/30/40/50/ 60Amp (@V _{yp} = 230Vac)		
Bulk Charging Voltage	Flooded Battery 14.6VDC	29.2VDC	29.2VDC
	AGM / Gel Battery 14.1VDC	28.2VDC	28.2VDC
Floating Charging Voltage	13.5VDC	27VDC	27VDC
MPPT Solar Charging Mode			
Charging Current	40Amp		
PV Array MPPT Voltage Range	15~80VDC	30~80VDC	30~80VDC
Max. PV Array Open Circuit Voltage	100VDC		
DC Voltage Accuracy	+/- 0.3%		
Joint Utility and Solar Charging			
Max Charging Current	100Amp		
Default AC Charging Current	60Amp		
Operating Temperature Range	-20°C to 55°C		
Storage temperature	-35°C to 60°C		
Humidity	5% to 95% Relative Humidity (Non-condensing)		