SILA V-MH-Grid Inverter

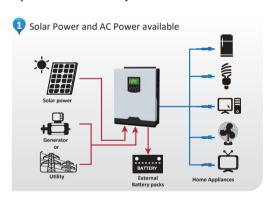
First 1.2kw and 2.5kw solar inverter can operate with or without battery

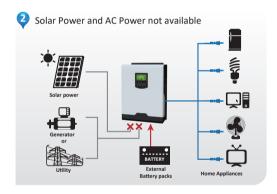


- Pure sine wave solar inverter
- MPPT power increases to 3kw for 2.5k model
- · Charging current increases to 80A
- Wide PV input voltage range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Smart battery charger design for optimized battery performance
- Cold start function
- Works without battery
- Optional feed-to-grid function

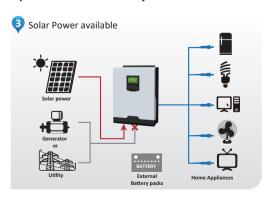
System Diagram:

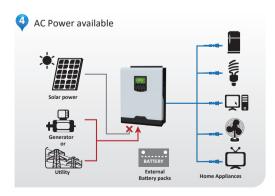
Operation with battery connected





Operation without battery connected





SILA-V-MH-Grid Inverter Selection Guide

Rated Power 1200VA/1200W 2500VA/2500W NPUT Voltage 230 VAC Selectable Voltage Range 170-280 VAC (For Personal Computers): 90-280 VAC (For Home Appliances) Frequency Range 50 Hz/60 Hz (Auto sensing) OUTPUT AC Voltage Regulation (Batt. Mode) 230VAC ± 5% Surge Power 2400VA 5000VA Efficiency (Peak) 90% ~ 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure airre wave BATTERY Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 18 VDC 32 VDC SOLAR CHARGER & CHARGER Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Charge Current 80A Maximum Charge Current 80A	MODEL	SILA V 1000MH	SILA V 2500MH	
Voltage 230 VAC Selectable Voltage Range 170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances) Frequency Range 50 Hz/60 Hz (Auto sensing) OUTPUT AC Voltage Regulation (Batt. Mode) 230VAC ± 5% Surge Power 2400VA 5000VA Efficiency (Peak) 90% ~ 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave BATTERY Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 18 VDC 32 VDC SOLAR CHARGER & AC CHARGER Solar Charge Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum PV Array Current 80A Maximum Charge Current 80A Maximum Charge Current 80A Maximum Charge Current 80A </td <td>Rated Power</td> <td>1200VA/1200W</td> <td>2500VA/2500W</td>	Rated Power	1200VA/1200W	2500VA/2500W	
Selectable Voltage Range	INPUT			
Frequency Range	Voltage	230 VAC		
OUTPUT AC Voltage Regulation (Batt. Mode) 230VAC ± 5% Surge Power 2400VA 5000VA Efficiency (Peak) 90% ~ 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave BATTERY Battery Voltage Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 16 VDC 32 VDC SOLAR CHARGER & AC CHARGER SOLAR CHARGER & AC CHARGER Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum AC Charge Current 80A Maximum Charge Current	Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)		
AC Voltage Regulation (Batt. Mode) 230VAC ± 5% Surge Power 2400VA 5000VA Efficiency (Peak) 70 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave BATTERY Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 16 VDC 32 VDC SOLAR CHARGER & AC CHARGER Solar Charger Type MAPPT Maximum PV Array Open Circuit Voltage 350 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum AC Charge Current 80A Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 Communication Interface ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Frequency Range	50 Hz/60 Hz (Auto sensing)		
Surge Power 2400VA 5000VA Efficiency (Peak) 90% ~ 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave BATTERY Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 16 VDC 32 VDC SOLAR CHARGER & AC CHARGER Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	ОЦТРИТ			
Efficiency (Peak) 90% ~ 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave BATTERY Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 16 VDC 32 VDC SOLAR CHARGER & AC CHARGER Solar Charge Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum Charge Current 80A PHYSICAL 80A Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	AC Voltage Regulation (Batt. Mode)	230VAC ± 5%		
Transfer Time 10 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave BATTERY Battery Voltage Battery Voltage 12 VDC 24 VDC Floating Charge Voltage 13.5 VDC 27 VDC Overcharge Protection 16 VDC 32 VDC SOLAR CHARGER & AC CHARGER Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Surge Power	2400VA	5000VA	
Pure sine wave	Efficiency (Peak)	90% ~ 93%		
## Battery Voltage ## 12 VDC	Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)		
Battery Voltage	Waveform	Pure sine wave		
Floating Charge Voltage	BATTERY			
Overcharge Protection 16 VDC 32 VDC SOLAR CHARGER & AC CHARGER MPPT Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A PHYSICAL 80A Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	Battery Voltage	12 VDC	24 VDC	
SOLAR CHARGER & AC CHARGER Solar Charger Type Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Floating Charge Voltage	13.5 VDC	27 VDC	
Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	Overcharge Protection	16 VDC	32 VDC	
Maximum PV Array Open Circuit Voltage 350 VDC 450 VDC Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A PHYSICAL 80A Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power 2000W 3000W MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Solar Charger Type	МРРТ		
MPP Range @ Operating Voltage 60-300 VDC 60-400 VDC Maximum Solar Charge Current 80A Maximum AC Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC	
Maximum Solar Charge Current 80A Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Maximum PV Array Power	2000W	3000W	
Maximum AC Charge Current 80A Maximum Charge Current 80A PHYSICAL 00 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	MPP Range @ Operating Voltage	60-300 VDC	60-400 VDC	
Maximum Charge Current 80A PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	Maximum Solar Charge Current	80A		
PHYSICAL Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	Maximum AC Charge Current	80A		
Dimension, D x W x H (mm) 90 x 288 x 357 Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing)	Maximum Charge Current	80A		
Net Weight (kgs) 7.0 7.0 Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	PHYSICAL			
Communication Interface RS232 ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Dimension, D x W x H (mm)	90 x 288 x 357		
ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing)	Net Weight (kgs)	7.0	7.0	
Humidity 5% to 95% Relative Humidity (Non-condensing)	Communication Interface	RS232		
	ENVIRONMENT			
	Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature -10°C to 50°C	Operating Temperature	-10°C to 50°C		
Storage Temperature -15°C to 60°C	Storage Temperature	-15°C to 60°C		

Product specifications are subject to change without further notice.