SILA V-MH-Grid Inverter

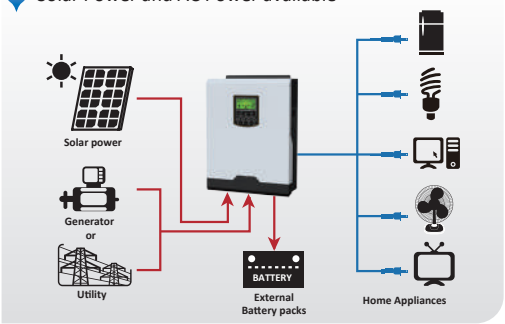
First 1.2kw and 2.5kw solar inverter can operate with or without battery

- 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

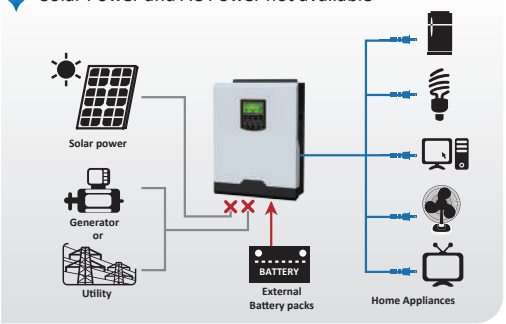
System Diagram:

Operation with battery connected

1 Solar Power and AC Power available

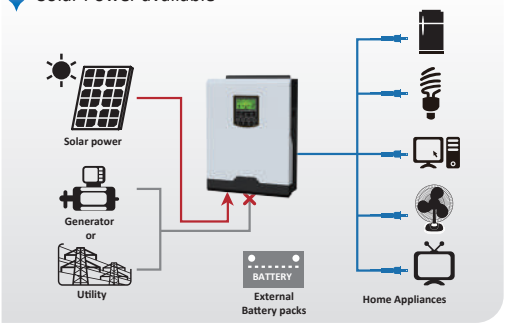


2 Solar Power and AC Power not available

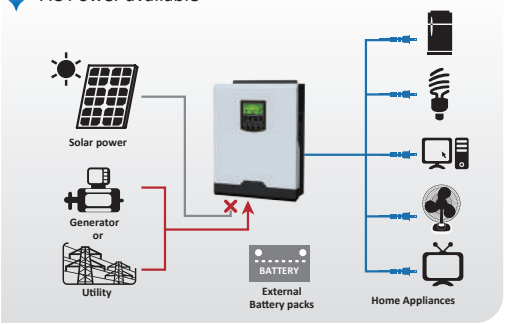


Operation without battery connected

3 Solar Power available



4 AC Power available



SILA-V-MH-Grid Inverter Selection Guide

MODEL	SILA V 1000MH	SILA V 2500MH
Rated Power	1200VA/1200W	2500VA/2500W
INPUT		
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	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)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.