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Livguard Energy Technologies Private Limited
Plot no. 221, Udyog Vihar Phase-I,
Gurgaon-122016, Haryana, India.
www.livguard.com



GIH INVERTER - 1 PHASE

Grid Interactive Hybrid Inverters are also known as GIH inverters. With a wide operating temperature range and suitable for operation in harsh environments, these machines are a perfect fit for low maintenance, off-grid/ hybrid installations of industrial and residential nature both.



Priority/Non-Priority Solar operation

- Use Solar Power for both type of Loads.
- Connect Upto 20Kva Load on Non-Priority.



Scheduled Grid Usage

- Manage start/stop battery charging from grid/solar effectively
- Limit Import Power from Grid



3-Stage Battery Charging

- Float, Bulk & Equalization
- Ensure long life of the battery



In-Built Zero Export

- No separate device required.
- Use Solar On-Grid without Net Metering.



MPPT-Based Solar Charge Controller

- Highly Efficient MPPT technology for maximum solar utilization.



10 ms

Seamless Switching <10ms

- Switch between inverter/mains without any interruptions.

GRID INTERACTIVE HYBRID INVERTER - 1 PHASE

Model Name	LS 103GIHT	LS 105GIHT
Capacity	3KVA	5KVA

MAINS INPUT MODE

Mains AC Low Cut	170 ± 5V	170 ± 5V
Mains AC Low Cut Recovery	10V Hysteresis from > Low Cut Voltage	
Mains AC High Cut	265 ± 5V	265 ± 5V
Mains AC High Cut Recovery	10V Hysteresis from < High Cut Voltage	
Input Frequency Range	47-53Hz	

MAINS EXPORT MODE

Inverter output voltage in Grid export mode	Same as Mains Voltage	
Full Scale Export Power	2400W	4000W
Export Power Control	Can be Done from Front Panel by using Load Following Mode Load Following ON: Zero Export Activated, Load Following OFF: Export Mode Activated	

BATTERY

Battery Type	TUBULAR/FLAT/VRLA	
DC Input Voltage (Nominal)	48V	
Battery Quantity (12V 100Ah to 220Ah)	4	
Float Charging Voltage (Tubular/ VRLA/ Flat Plate)	13.2/13.5/13.4 (per Battery) ± .5V	
Bulk Charging Voltage(Tubular/ VRLA/ Flat Plate)	14.5/13.8/13.7 (per Battery) ± .5V	
Battery Deep Discharge Recovery	YES	
Default Charging Current By Grid	Half of Solar Charging Current	
Max Charging Current By PV	60.0 ± 1.0A	100.0 ± 1.0A

BACKUP MODE

Output Voltage	230 ± 2% V	
Output Frequency	50 ± 0.5 Hz	
Output Waveform	PURE SINE WAVE	
Maximum No Load losses	<100W	<150W
Max Nominal output current	10.5 A± 1 Amp.	17.5 A ± 1 Amp.
Low Battery Warning	11.1V (per Battery) ± 0.2V	
Low Battery Cut	10.8V (per Battery) ± 0.2V	
Change Over Time	≤ 10 msec	≤ 10msec

PROTECTIONS

Overload in Backup Mode, Short Circuit (Backup/Mains), Over Temperature, Reverse battery, MOV for Grid/Load/PV Surge

SOLAR CHARGE CONTROLLER

Solar Charge Controller Type	MPPT	
Max Panel Wattage That Can Be Connected	3300W	5500W
No. of Input Channel	1	1
Max. input Current per Channel (Maximum Isc)	(30 ± 1)A	(50 ± 1)A
Maximum PV Voltage Voc	(190 ± 5)V	
Minimum PV Voltage Vmp	70V	
Maximum PV Voltage Vmp	(160 ± 5)V	
Maximum Battery Current	60A	100A
MPPT Charger Efficiency (Peak)	94%	
Reverse PV Protection	YES	
Reverse Current Flow to PV	NO	
Switching Element(MPPT Charger)	IGBT	

MODES OF OPERATIONS

Modes Available (User Settable) i). Hybrid with Export ii). Hybrid with Zero Export iii). Stand alone (Similar to MPPT)

DISPLAY AND ALARMS

Battery Voltage & Current, PV Voltage, Solar Charger O/P Current, Solar KWH, Total KWH, Mains Voltage, Power, Frequency, Load Power, Current & Frequency, Battery Charging Status, Time, Date

LCD FAULT/PROTECTION STATUS DISPLAY

Overload, Over Current, Battery Over/Under Voltage, Mains Over/Under Voltage, System Over Temperature

ENVIRONMENT

Operating Temperature	0°C to 50°C
Operating Relative Humidity	5-95% (Non-condensed)

DIMENSIONS

Dimensions in mm(LXWXH)	625X300X475MM
Weight in Kg	55kgs

NOTE: Specifications are subject to change without prior notice

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- ◆ Battery: CSC location



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18001025551
livserv@sar-group.com