



IGSCI-0.5kVA to 7.0kVA

PV Charger and Inverter



Features

- Integrated system
- Compact solution
- High efficiency @ 85% to 90%
- Auto-switch (transfer of load between electricity grid and inverter output)
- Auxiliary charging
- Low frequency transformer
- True sine wave output
- Optional diesel generator input
- Simple and lower cost of installation

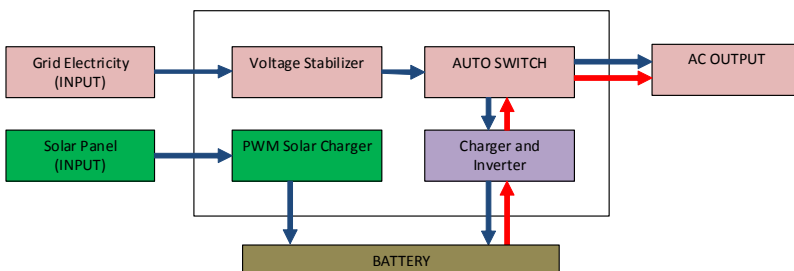
Description

The InfluxGreen IGSCI-0.5kVA to 7.0kVA is an integrated system comprising of the solar charger, AC charger (optional), inverter, AC bypass switch, transformer and battery options. The unit can be implemented in complement with the grid or as stand-alone implementation, suitable for applications whereby grid is not readily available.

The design utilizes low frequency transformer and this will ensure that the unit can withstand the high inrush current of various home appliances like fans, pumps, refrigerator, air-conditioner, TV and lamps etc.

The availability of the different range of power outputs in small increments (from 0.5kVA to 7.0kVA) provides flexibility for the users' applications.

The IGSCI products provide a cost effective, reliable and efficient stand-alone system with batteries back up to meet specific users' needs.





Technical Specifications

Models	IGSCI-0.5kVA	IGSCI-0.7VA	IGSCI-1.0kVA	IGSCI-1.5kVA
Inverter Power Rating	360W	500W	700W	1.0kW
Battery Rated Voltage	12V	12V	24V	24V
Solar Charger Parameters				
Max PV Input Power	360W	360W	720W	1200W
Max PV Input Voltage	30Vdc	30Vdc	50Vdc	50Vdc
Max Solar Charging Current	30A	30A	30A	50A
Battery Overcharge Protection	15Vdc	15Vdc	30Vdc	30Vdc
Battery Discharge Protection	10Vdc	10Vdc	20Vdc	20Vdc
AC Charger Parameters (Optional)				
Grid Electricity Input Voltage	145 to 275Vac (50Hz) / 75 to 140Vac (60Hz)			
Grid Electricity Input Frequency	50Hz / 60Hz ± 3%			
AC Charging Current	Standard: 10A, Max: 15A			
Inverter Parameters				
Inverter Output Voltage	110/120/127Vac ± 3%; 220/230Vac ± 3%			
Inverter Output frequency	50Hz / 60Hz ± 1%			
Efficiency	85.0% to 90.0%			
Overload Capability	Overload Protection: 100-120% @ 2 mins; 120-300% @ 10s; short circuit @ 0.1ms			
Output Waveform / Crest Factor	Pure Sine Wave / 3 (can endure any inductive load start up)			
Environmental & Others				
Display	LCD / Battery Capacity, AC Input Voltage, AC Output Voltage, Load			
Comprehensive Protections	AC & DC overload, Undervoltage, SPD, Short Circuit, Overcharge, Over-discharge, Over temperature			
Cooling	High Velocity Cooling Fan			
Communications	RS 232			
Noise	< 60dB			
Operating Temperature	0 to +40 °C			
Storage Temperature	-15 to +50 °C			
Humidity	0 to 90%, no dew			
Altitude	0 – 3000m (derated power @ >1000m at 1% per 100m)			
Dimensions (W x D x H)	460 x 210 x 305 mm	460 x 210 x 305 mm	460 x 210 x 305 mm	460 x 230 x 305 mm
Weight	13kg	13.5kg	15kg	16kg

All technical specifications contained within this document are subject to change without prior notice

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Technical Specifications

Models	IGSCI-2.0kVA	IGSCI-3.0kVA	IGSCI-4.0kVA	IGSCI-5.0kVA	IGSCI-6.0kVA	IGSCI-7.0kVA
Inverter Power Rating	1.5kW	2.0kW	3.0kW	3.5kW	4.0kW	5.0kW
Battery Rated Voltage	48V	48V	48V	96V	96V	96V

Solar Charger Parameters						
Max PV Input Power	1440W	2400W	3000W	4800W	4800W	4800W
Max PV Input Voltage	100Vdc	100Vdc	100Vdc	200Vdc	200Vdc	200Vdc
Max Solar Charging Current	30A	50A	50A	50A	50A	50A
Battery Overcharge Protection	60Vdc	60Vdc	60Vdc	120Vdc	120Vdc	120Vdc
Battery Discharge Protection	40Vdc	40Vdc	40Vdc	80Vdc	80Vdc	80Vdc

AC Charger Parameters (Optional)	
Grid Electricity Input Voltage	145 to 275Vac (50Hz) / 75 to 140Vac (60Hz)
Grid Electricity Input Frequency	50Hz / 60Hz \pm 3%
AC Charging Current	Standard: 10A, Max: 15A

Inverter Parameters	
Inverter Output Voltage	110/120/127Vac \pm 3%; 220/230Vac \pm 3%
Inverter Output frequency	50Hz / 60Hz \pm 1%
Efficiency	85.0% to 90.0%
Overload Capability	Overload Protection: 100-120% @ 2 mins; 120-300% @ 10s; short circuit @ 0.1ms
Output Waveform / Crest Factor	Pure Sine Wave / 3 (can endure any inductive load start up)

Environmental & Others	
Display	LCD / Battery Capacity, AC Input Voltage, AC Output Voltage, Load
Comprehensive Protections	AC & DC overload, Undervoltage, SPD, Short Circuit, Overcharge, Over-discharge, Over temperature
Cooling	High Velocity Cooling Fan
Communications	RS 232
Noise	< 60dB
Operating Temperature	0 to +40 °C
Storage Temperature	-15 to +50 °C
Humidity	0 to 90%, no dew
Altitude	0 – 3000m (derated power @ >1000m at 1% per 100m)
Dimensions (W x D x H)	580 x 260 x 410 mm 645 x 315 x 540 mm
Weight	25kg 27kg 35kg 40kg 45kg 51kg

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