

KEY FEATURES

- ★ MPPT Solar Charger Controller with efficiency >99%
- ★ Power 300% surge power
- ★ High Charge Current, 3 stage battery charger
- ★ Pure Sine Wave with low harmonic distortion
- ★ CRGO toroidal transformer, lower static loss, higher efficiency
- ★ 32 bit high speed CPU control with accurate detection
- ★ Auto switch between AC and PV.
- ★ Integrated design with built-in batteries, portable and easy to install.



32 Bit High Speed CPU



CRGO Toroidal Transformer





HYBRID SOLAR INVERTER

--HSI Series 300W/500W/700W



TECHNICAL SPECIFICATIONS

| MODEL NO. | | HSI-500 | HSI-800 | HSI-1000 |
|---------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------|-------------|
| RATED POWER | | 500VA/300W | 800VA/500W | 1000VA/700W |
| BATTERY VOL. | | 12Vdc | 12Vdc | 12Vdc |
| WORKING MODE | | PV/ AC Priority Optional by Manual | | |
| TRANSFORMER | | CRGO Toroidal Transformer | | |
| DISPLAYER | | LED Graphic Displayer with working/ loading/ battery status | | |
| PV | Input Voltage Range | 15~50Vdc | | |
| | Max Charge Current | 20A | 30A | 30A |
| | Controller Type | MPPT- Max Power Point Tracking | | |
| | Controller Efficiency | 98% | | |
| MAIN POWER MODE | Input Voltage Range | 140~275 Vac | | |
| | Input Frequency Range | 45~65 Hz (automatically transfer to invert mode when over frequency) | | |
| | Output Voltage Range | 195~240Vac/ customized depends on main power | | |
| | Input Power Factor(AC-DC) | >0.98 | | |
| | Efficiency | Main Mode>96% | | |
| | Charge Current | 5A/10A/15A/20A Optional | | |
| | Overload | Warning till load decreased | | |
| | Short Circuit | System automatically shutdown | | |
| INVERTER MODE | Output Voltage | 220Vac±1% for inverter or customized depends on main power voltage | | |
| | Output Frequency | 50/60Hz±0.5Hz depends on the main power frequency | | |
| | PV~AC Transfer Time | Typical 4ms/ Max 6ms | | |
| | Efficiency | Invert Mode>80% | | |
| | Output Power Factor | >0.8 | | |
| | Inverter Overload | 110~130% shutdown at 30s, 130~150% shutdown at 3s | | |
| | Short Circuit | System automatically shutdown | | |
| | Wave Form | Pure Sine Wave | | |
| | Wave Form Distortion | <3% | | |
| ALARM | Main Abnormal | Beep 1time/s, auto silence after 5s | | |
| | Low Battery | Beep 1time/s, battery indicator flash | | |
| | Overload | Beep 2time/s, overload indicator on | | |
| PROTECTION | Overload, high temperature, output high/low voltage,short circuit, over-charge, over-discharge | | | |
| CHARGE VOL. | 13.6±0.3 Vdc | | | |
| OVER-DISCHARGE PROTECTION VOL. | 10.2±0.3 Vdc | | | |
| CHARGE MODE | 3 Stages: bulk/ boost/ float | | | |
| COOLING SYSTEM | Fans | | | |
| WORKING TEMPERATURE | 0~40 °C | | | |
| WORKING HUMIDITY | 10~90% RH, non-condensing | | | |
| PACKAGE | PRODUCT SIZE (mm) | 259*257*149 | | 310*312*167 |
| | CARTON SIZE (mm) | 670*360*235 | | 420*400*265 |
| | PCS/CTN | 2 pcs/CTN | | 1pcs/CTN |
| | GROSS WEIGHT (kgs/CTN) | 7.8 | 8.4 | 9.8 |

HYBRID SOLAR INVERTER

--HSI Series 1kW/1.5kW/2kW



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HYBRID SOLAR INVERTER

--HSI Series 1kW/1.5kW/2kW



TECHNICAL SPECIFICATIONS

| MODEL NO. | HSI-1500 | HSI-2000 | HSI-3000 | |
|---------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------|------|
| RATED POWER | 1500VA/1050W | 2000VA/1500W | 3000VA/2100W | |
| BATTERY VOL. | 24Vdc | 24Vdc | 48Vdc | |
| WORKING MODE | PV/ AC Priority Optional by Manual | | | |
| TRANSFORMER | CRGO Toroidal Tranformer | | | |
| DISPLAYER | LED Graphic Displayer with working/ loading/ battery status | | | |
| PV | Input Voltage Range | 15~50Vdc | | |
| | Max Charge Current | 40A | 40A | 40A |
| | Controller Type | MPPT- Max Power Point Tracking | | |
| | Controller Efficiency | 98% | | |
| MAIN POWER MODE | Input Voltage Range | 140~275 Vac | | |
| | Input Frequency Range | 45~65 Hz (automatically transfer to invert mode when over frequency) | | |
| | Output Voltage Range | 195~240Vac/ customized depends on main power | | |
| | Input Power Factor(AC-DC) | >0.98 | | |
| | Efficiency | Main Mode>96% | | |
| | Charge Current | 5A/10A/15A/20A Optional | | |
| | Overload | Warning till load decreased | | |
| | Short Circuit | System automatically shutdown | | |
| INVERTER MODE | Output Voltage | 220Vac±1% for inverter or customized depends on main power voltage | | |
| | Output Frequency | 50/60Hz±0.5Hz depends on the main power frequency | | |
| | PV~AC Tranfer Time | Typical 4ms/ Max 6ms | | |
| | Efficiency | Invert Mode>80% | | |
| | Output Power Factor | >0.8 | | |
| | Inverter Overload | 110~130% shutdown at 30s, 130~150% shutdown at 3s | | |
| | Short Circuit | System automatically shutdown | | |
| | Wave Form | Pure Sine Wave | | |
| | Wave Form Distortion | <3% | | |
| ALARM | Main Abnormal | Beep 1time/s, auto silence after 5s | | |
| | Low Battery | Beep 1time/s, battery indicator flash | | |
| | Overload | Beep 2time/s, overload indicator on | | |
| PROTECTION | Overload, high temperature, output high/low voltage, short circuit, over-charge, over-discharge | | | |
| CHARGE VOL. | 27.2±0.6 Vdc | | | |
| OVER-DISCHARGE PROTECTION VOL. | 20.5±0.6 Vdc | | | |
| CHARGE MODE | 3 Stages: bulk/ boost/ float | | | |
| COOLING SYSTEM | Fans | | | |
| WORKING TEMPERATURE | 0~40 °C | | | |
| WORKING HUMIDITY | 10~90% RH, non-condensing | | | |
| PACKAGE | PRODUCT SIZE (mm) | 310*312*167 | | |
| | CARTON SIZE (mm) | 420*400*265 | | |
| | PCS/CTN | 1pcs/CTN | | |
| | GROSS WEIGHT (kgs/CTN) | 10.8 | 14 | 15.8 |

HYBRID SOLAR INVERTER

--HSI Series 3kW/4kW/5kW

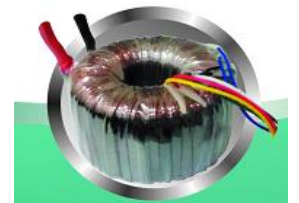


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32 Bit High Speed CPU



CRGO Toroidal Transformer





HYBRID SOLAR INVERTER

--HSI Series 3kW/4kW/5kW



TECHNICAL SPECIFICATIONS

| MODEL NO. | HSI-4000 | HSI-6000 | HSI-7000 | |
|---------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------|-----|
| RATED POWER | 4kVA/3kW | 6kVA/4kW | 7kVA/5kW | |
| BATTERY VOL. | 48Vdc | 48Vdc | 48Vdc | |
| WORKING MODE | PVI AC Priority Optional by Manual | | | |
| TRANSFORMER | CRGO Toroidal Tranformer | | | |
| DISPLAYER | LED Graphic Displayer with working/ loading/ battery status | | | |
| PV | <i>Input Voltage Range</i> | 15~50Vdc | | |
| | <i>Max Charge Current</i> | 60A | 60A | 80A |
| | <i>Controller Type</i> | MPPT- Max Power Point Tracking | | |
| | <i>Controller Efficiency</i> | 98% | | |
| MAIN POWER MODE | <i>Input Voltage Range</i> | 140~275 Vac | | |
| | <i>Input Frequency Range</i> | 45~65 Hz (automatically transfer to invert mode when over frequency) | | |
| | <i>Output Voltage Range</i> | 195~240Vac/ customized depends on main power | | |
| | <i>Input Power Factor(AC-DC)</i> | >0.98 | | |
| | <i>Efficiency</i> | Main Mode>96% | | |
| | <i>Charge Current</i> | 5A/10A/15A/20A Optional | | |
| | <i>Overload</i> | Warning till load decreased | | |
| | <i>Short Circuit</i> | System automatically shutdown | | |
| INVERTER MODE | <i>Output Voltage</i> | 220Vac±1% for inverter or customized depends on main power voltage | | |
| | <i>Output Frequency</i> | 50/60Hz±0.5Hz depends on the main power frequency | | |
| | <i>PV~AC Tranfer Time</i> | Typical 4ms/ Max 6ms | | |
| | <i>Efficiency</i> | Invert Mode>80% | | |
| | <i>Output Power Factor</i> | >0.8 | | |
| | <i>Inverter Overload</i> | 110~130% shutdown at 30s, 130~150% shutdown at 3s | | |
| | <i>Short Circuit</i> | System automatically shutdown | | |
| | <i>Wave Form</i> | Pure Sine Wave | | |
| ALARM | <i>Main Abnormal</i> | Beep 1time/s, auto silence after 5s | | |
| | <i>Low Battery</i> | Beep 1time/s, battery indicator flash | | |
| | <i>Overload</i> | Beep 2time/s, overload indicator on | | |
| PROTECTION | Overload, high temperature, output high/low voltage,short circuit, over-charge, over-discharge | | | |
| CHARGE VOL. | 54.5±1 Vdc | | | |
| OVER-DISCHARGE PROTECTION VOL. | 41±1 Vdc | | | |
| CHARGE MODE | 3 Stages: bulk/ boost/ float | | | |
| COOLING SYSTEM | Fans | | | |
| WORKING TEMPERATURE | 0~40 °C | | | |
| WORKING HUMIDITY | 10~90% RH, non-condensing | | | |
| PACKAGE | <i>PRODUCT SIZE (mm)</i> | 540*33*130 | | |
| | <i>CARTON SIZE (mm)</i> | 645*435*245 | | |
| | <i>PCS/CTN</i> | 1pcs/CTN | | |
| | <i>GROSS WEIGHT (kgs/CTN)</i> | 26 | 28 | 30 |