

## TECHNICAL SPECIFICATION

### **BIC1220100i** Bi-Directional (230V Series) 2000W Inverter + 100A Charger



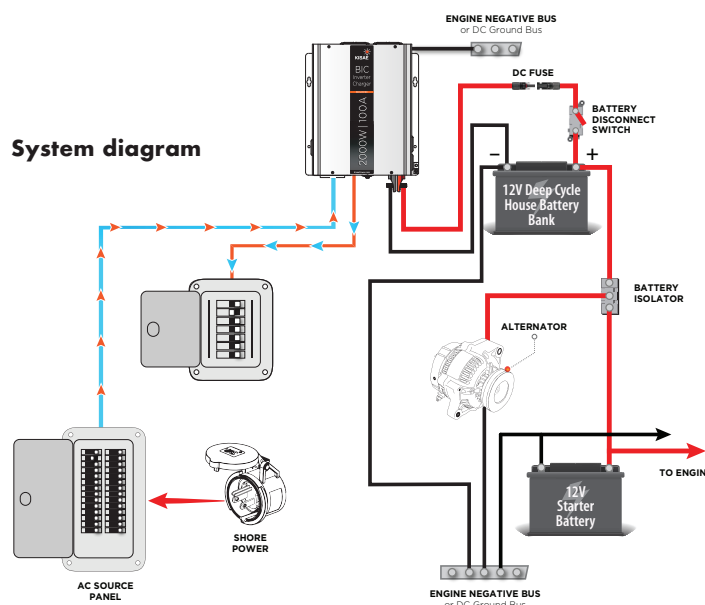
#### Product features

- Combines a 2000W DC-AC Inverter plus transfer switch with a 100A multi-stage battery charger.
- True sinewave output identical to or better than power provided by the local utility company.
- Multi-stage battery charging ensures batteries are charged to battery manufacturer's recommendations.
- Variable settings offered for Lithium, Gel, Flooded, AGM, Programmable, and Power Supply batteries.
- High start-up surge rated 2X continuous power rating.

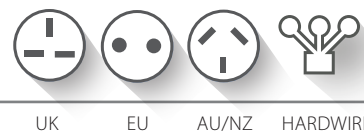
#### Product dimensions

Length: 15.4", Width: 11.9", Height: 4.2" (391mm x 302mm x 106mm)

#### System diagram



#### Available outputs



Specifications subject to change without notice.

## BIC1220100i Bi-Directional (230V Series) 2000W Inverter + 100A Charger

### Inverter

AC Output Power (Continuous)	2000W
AC Output Power (Peak - 1 second)	4000W
AC Output Voltage/Frequency	230VAC / 50 Hz
AC Output Current	8.7A
AC Output Current (Peak)	26A max (with max power limitation)
AC Output Waveform	True Sinewave (<5% THD)
Peak Efficiency	90%
Input Voltage (nominal)	12.5Vdc
Input Voltage Operation Range	10.5 - 16.5Vdc
Input Standby Current	<3.5A
Input Standby Current (Power Save)	< 0.6A

### Battery Charger

Charger Voltage Range	13.8 - 14.8 V (Selectable)
Float Voltage Range	13.0 - 14.0 V (Selectable)
Charger Current	10 - 100A
Charger Battery Type	Gel, Flooded, AGM, Lithium, Programmable, Power Supply
Charging Stages	Check, Bulk, Absorption, Float, Recharge
Recharge Voltage Range	13.0 - 14.0 V (Selectable)
Recharge Timer	7 days (automatic)
Power Sharing	Reduce Charger Current when heavy AC Load is connected

### AC Transfer Switch

AC Input Voltage/Frequency	230 VAC (Accept MSW AC Input)
AC Input Voltage Acceptance Range:	192 - 265 VAC
Transfer Time	< 30ms
Transfer Relay Rating	16A
AC Input Port	Hardwire 16A Heavy Duty Connector
AC Output Port	Hardwire 16A Heavy Duty Connector
AC Output Socket	EU, UK, AU/NZ

### Protection

Battery Input Undervoltage Shutdown:	10.5 - 12.0Vdc (with dynamic control)
Battery Input Undervoltage Warning:	11.0 - 12.5Vdc
Battery Input Undervoltage Recovery:	N/A
Battery Input Overvoltage Shutdown:	16.5Vdc
Inverter Overload Warning/Shutdown:	1800W / 2200W
Unit Over-temp Warning/Shutdown:	Yes

### Display (Main Unit)

Power On/Off Switch	Yes (Push Button)
Indicator	3 LEDs (Power, AC Output, Unit Status)

### Display (Main Unit) continued

Remote Display Port	RJ12
Battery Temperature Sensor Port:	For use with Battery Temperature Sensor (BTS)
Ignition Start Port	Yes
Communication	Bluetooth (optional)

### Remote Display Panel (External)

Indicator (LED)	Power, AC Output, Unit and Battery Status
Display Type	LCD with backlighting
Numerical Display Function	Battery Voltage, AC Power, DC Current
Graphics Display Function	AC Bypass, Battery Power, AC Input, Battery Status Warning/Fault Code
USB Port	Unit software upgrade

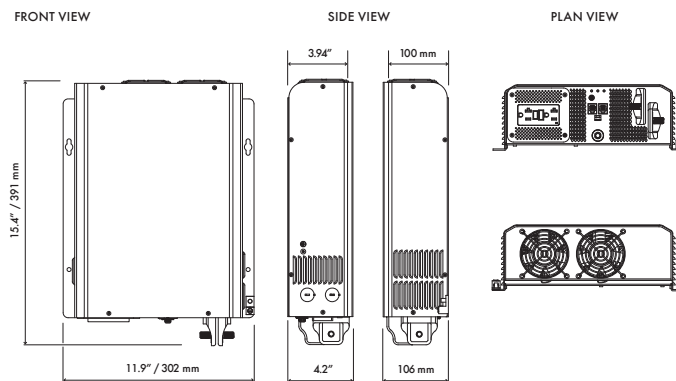
### Regulatory Compliance

Markings	CE, e-Mark
Conformance	LVD, EMC
EMI/EMC	CE EMC <sup>1</sup>

### Size

Dimensions (L x W x H)	15.4" x 11.9" x 4.2" (391mm x 302mm x 106mm)
Net Weight	17.6 lbs. / 8.0 Kg

### Schematic Drawings



### Standard warranty

1 year warranty



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<sup>1</sup>Tested to E9-09

**Distributor:**