

TECHNICAL SPECIFICATION

BIC1220080i Bi-Directional (230V Series) 2000W Inverter + 80A Charger



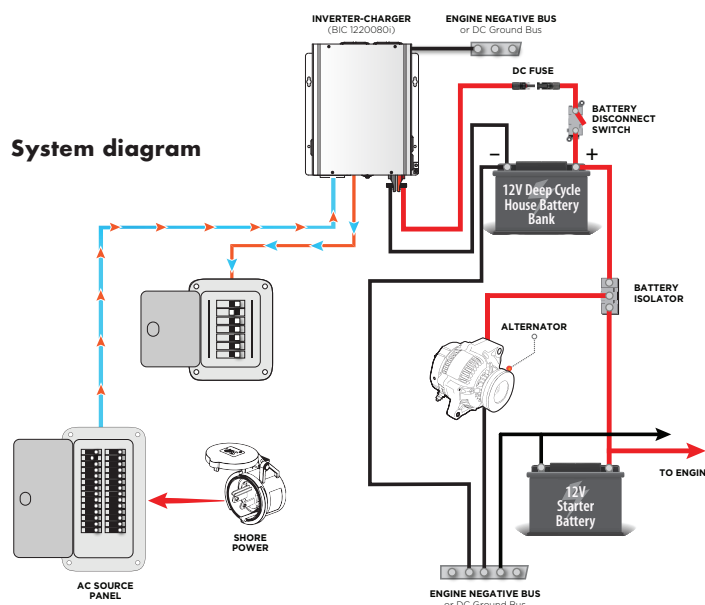
Product features

- Combines a 2000W DC-AC Inverter plus transfer switch with a 80A 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 Gel, Flooded, AGM, Lithium, Programmable, and Power Supply batteries.
- High start-up surge rated 2X continuous power rating.

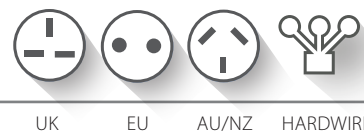
Product dimensions

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

System diagram



Available outputs



Specifications subject to change without notice.

BIC1220080i Bi-Directional (230V Series) 2000W Inverter + 80A 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 - 80A
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 Input 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 (continued)

Remote Display Port	For Remote Display Panel use
Battery Temperature Sensor Port:	For use with Battery Temperature Sensor (BTS)
Ignition Start Port	For use with Vehicle 'ACC' signal

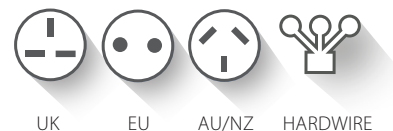
Remote Display Panel (External)

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
Communication	CAN BUS, Bluetooth (optional)
USB Port	Unit software upgrade

Regulatory Compliance

Markings	CE, e-Mark
Conformance	LVD, EMC
EMI/EMC	CE EMC Tested to E9-09

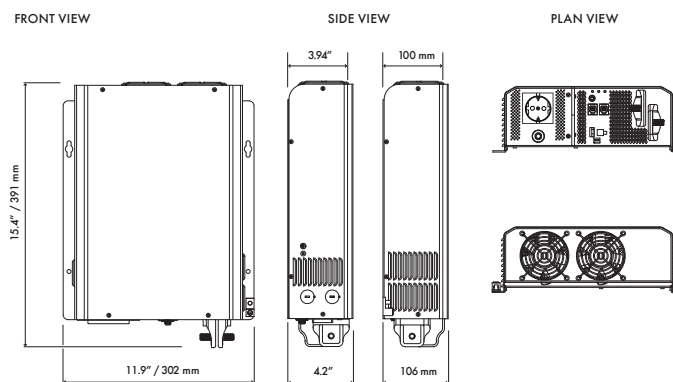
Available Outputs



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



Certified to meet all
CE Regulatory approval
standards in Europe.

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