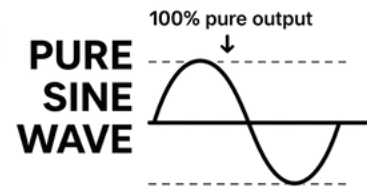


# Inverter-Charger

## TECHNICAL SPECIFICATIONS

### BIC1220080

Bi-Directional (120V Series) 2000W Inverter + 80A Charger



- **2000W Pure Sine Wave Output**
- **80A Internal Battery Charger**
- **Programmable LCD Display**
  - **Charges different battery types**
  - **including LITHIUM**

### Features And Benefits

- High wattage power inverter
- True sine wave output
- 120Vac output
- High amperage battery charger
- Micro-processor controlled
- Multi-stage charging algorithm
- Charges a variety of battery types
- Lightweight compact design
- Built-in CAN BUS communication
- Accepts AC or DC input sources
- Built-in load sense to minimize battery drain
- Comes with remote panel included for unit setting and monitoring



**LCD Remote panel included**

Designed and Tested to Meet cETus Requirements for North America and CE Requirements for EU, UK, AU, and NZ.



# BIC1220080

## Bi-Directional (120V Series)2000W Inverter + 80A Charger

### Inverter

AC Output Power (Continuous)	2000W
AC Output Power (Peak - 1 second)	4 000W
AC Output Voltage/Frequency.	120VAC / 60 Hz
AC Output Current	16.6A
AC Output Current (Peak)	40A 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.	<3.0A
Input Standby Current (Power Save)	< 0.6A

### Battery Charger

Charger Voltage Range	13.8 - 14.8V (Selectable)
Floater Voltage Range	13.0 - 14.0V (Selectable)
Charger Current	10 - 80A
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	120 VAC (Accept MSW AC Input)
AC Input Voltage Acceptance Range:	108 - 132 VAC
Transfer Time	< 30ms
Transfer Relay Rating	30A
AC Input Port	Hardwire 30A Heavy Duty Connector
AC Output Port	Hardwire 30A Heavy Duty Connector
AC Input Socket	NEMA 5-20 GFCI (Optional)

### 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)

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

### Display (continued)

Remote DisplayPort Battery	For Remote Display Panel use
Temperature Sensor Port: Ignition	For use with Battery Temperature Sensor (BT)
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), LIN (optional)
USB Port	Unit software upgrade

### Regulatory Compliance

Markings	cETLus UL & CSA
Conformance	Standards FCC Part 15
EMI/EMC	Class B

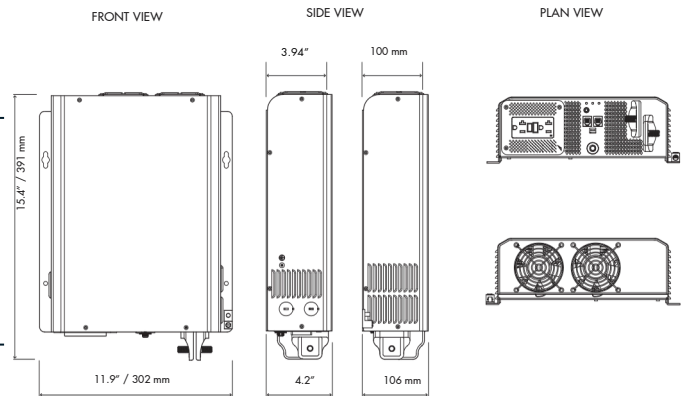
### Size

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

### Standard warranty

1 year warranty

### Schematic Drawings



This product carries a cETLus safety certification which complies with the Regulatory safety standards for North America.

