

TECHNICAL SPECIFICATIONS

BIC1220080 Bi-Directional (120V Series) 2000W Inverter + 80A Charger



Product features

- Combines a 2000W DC-AC Inverter plus transfer switch with a 12V 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, Program batteries and Fixed Power Supply.
- High start-up surge rated 2X continous power rating.

Product dimensions

Length: 15.4", Width: 11.9", Height: 4.2" (391mm x 302mm x 106mm) Base width: 12.1" / 307 mm

System diagram BATTERY ISOLATOR or DC Ground Bus

Available output options





HARDWIRE

Specifications subject to change without notice.

KISAE Inverter-Charger



Bi-Directional (120V Series) **BIC1220080** DI-DIFECTIONIAI (1207 SCIICS) 2000W Inverter + 80A Charger

| Inverter | |
|-----------------------------------|-------------------------------------|
| AC Output Power (Continuous) | 2000W |
| AC Output Power (Peak - 1 second) | 4000W |
| 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) |
| Float Voltage Range | 13.0 - 14.0V (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

| VAC (Accept MSW AC Input) |
|--------------------------------|
| VAC (Accept M3W Ac IIIput) |
| 108 - 132 VAC |
|)ms |
| |
| wire 30A Heavy Duty Connector |
| dwire 30A Heavy Duty Connector |
| 1A 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)

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



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

Display (continued)

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

Remote Display Panel (External)

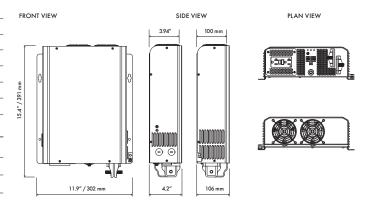
| Indicator (LED) | Power, AC Output, Unit and Battery Status |
|----------------------------|--------------------------------------------------------------------------|
| Display Type | LCD with backlighting |
| Numerical Display Function | Battery Voltage, AC Power, DC Current |
| Graphics Display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

Regulatory Compliance

| -3 | |
|-------------|---------------------|
| Markings | cETLus |
| Conformance | UL & CSA Standards |
| EMI/EMC | FCC Part 15 Class B |

| 0.20 | |
|------------------------|----------------------------------------------|
| Dimensions (L x W x H) | 15.4" × 11.9" × 4.2" (391mm x 302mm x 106mm) |
| Net Weight | 17.6 lbs. / 8.0 Kg |

Schematic Drawings



Standard warranty

1 year warranty

All specifications subject to change without notice. Copyright © 2024 Kisae Technology Inc. All Rights Reserved under UCC I-308 without prejudice.

To learn more about this and other fine Kisae products please contact:

info@kisaetechnology.com

kisaepower.com

Distributor:

¹Tested to E9-09