

TECHNICAL SPECIFICATIONS

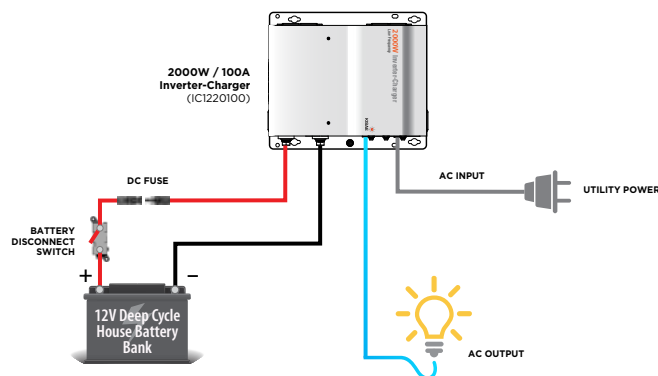
IC1220100 120 VAC Series 2000W Inverter + 100A Charger



Product features

- Low frequency design with high surge capability.
- Multi-stage charging ensures batteries are charged to battery manufacturer's recommendations.
- Microprocessor controlled charging algorithm (Bulk, Absorption, Float) for Gel, AGM and Flooded batteries (with manual equalization).
- True sine wave output will run heavy-duty motor loads sensitive electronics.
- Integrated transfer switch.

System diagram



Product dimensions

Width: 15.4", Length: 13.4", Height: 12.5" (392mm x 340mm x 317mm)
Base width: 392mm

Available output sockets



Specifications subject to change without notice.

IC1220100 120 VAC Series 2000W Inverter + 100A Charger

Inverter

AC Output Power (Continuous)	2000W
AC Output Power (Surge)	4000W (5 seconds)
AC Output (Voltage/Frequency)	120 VAC / 60 Hz
AC Output Current	17A
AC Output Current (Peak)	40A max
AC Output Waveform	True Sinewave (<3% THD)
Peak Efficiency	90%
DC Input Voltage (nominal)	12.5Vdc
DC Input Operation Range	10.5 - 16.5Vdc
DC Input Standby Current	< 3.5A (nominal), < 1A with load sense
Input Voltage Shutdown	< 15.5Vdc

Battery Charger

Charger Voltage Range	14.2 - 15.5 Vdc
Float Voltage Range	13.4 - 13.8 Vdc
Equalize Voltage (Flooded Battery)	16.0 Vdc
Charger Current (Maximum)	100A
Charger Current Setting (Auto)	Charger current maximized to AC input source
Charge Control	3-stage (Bulk, Absorption, Float) with equalization
Charger Battery Type	Gel, Flooded, AGM 12.8 - 14.0 V (Selectable)
Charge Temp. Compensation	7-days (Automatic)
AC Input Voltage/Frequency	120 VAC / 60Hz
Recharge Voltage Range	85 - 140 VAC
Charger Efficiency	> 85%
AC Input Power Factor (max charge)	0.98 typical
Dead Battery Charging	> 3.0Vdc

AC Transfer Switch

Transfer Time	< 20ms
Transfer Relay Rating	30A
AC Input Port	Hardwire - Heavy Duty Connector
AC Input Source Setting	15, 20, 30A
AC Input and Output Port 1	30A with back-up
AC Input and Output Port 2	Not Applicable

Operating Temperature

Storage Range	-40° to 70° C (-40° to 158° F)
Operating Range	-20° to 60° C (-4° to 140° F) derated linearly from 40° to 60° C (104° to 140° F)

Protection

Battery Input Undervoltage Shutdown:	10.5Vdc
Battery Input Overvoltage Shutdown:	16.5Vdc

Display

Remote Panel	External, connect through Remote 1 & 2 port
Inverter Mode	Input Voltage/Current, Output Power
Charger Mode	Charging Status, Battery Voltage
Warning and Default Code	Yes
LED Indicator	Yes (Invert, Standby, Charging)

Regulatory Compliance

Markings	cETLus
Conformance	UL & CSA Standards (UL 458 marine, CSA C22.2 No. 107.2-01)
EMI/EMC	FCC Part 15 Class A

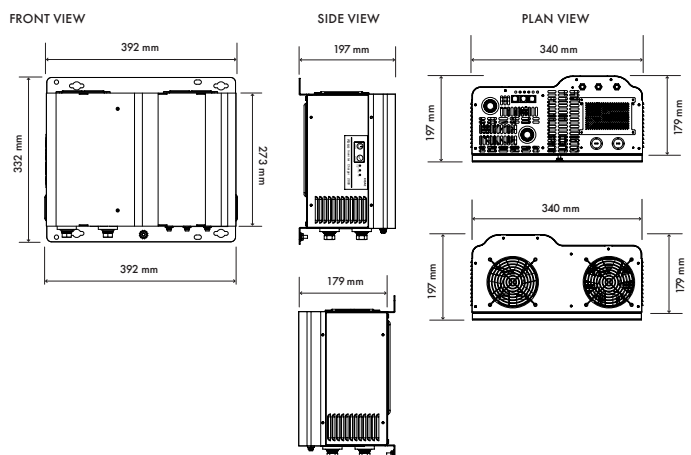
Accessories (optional)

Battery Temperature Sensor	Adjust battery charging voltage based on measured temperature
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Enclosure

Dimensions (W x L x H)	15.4" x 13.4" x 7.8" (392mm x 340mm x 197mm)
Net Weight	51.9 lbs. / 23.5 Kg

Schematic Drawings



Standard warranty

1 year warranty



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

All specifications subject to change without notice.
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