



Abso Inverter-Charger

Deluxe Inverter/Chargers for
emergency, commercial and
recreational vehicles



120V Output Series

IC1220100 (12V 2000W - 100A)

IC1230150 (12V 3000W - 150A)

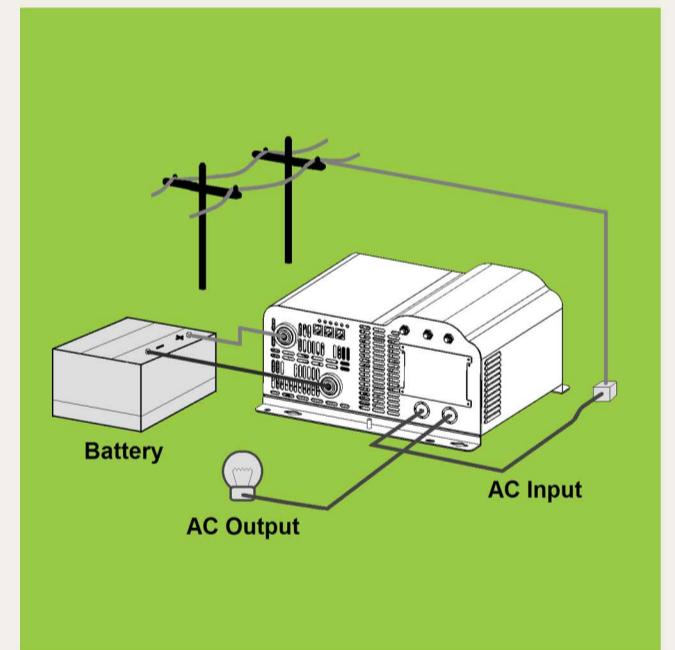
220-240V Output Series

IC244090i (24V 4000W - 90A)



Convert Battery Power to Household AC Power and Recharge Your Batteries

- Run your household appliances in your truck, boat or RV
- Sinewave output to run motor loads and sensitive electronics
- Multi-stage charger will charge your deep cycle batteries quickly and efficiently
- Integrated transfer switch allows you to switch seamlessly from shore power to battery power
- Ideal inverter for running microwave ovens, kitchen appliances, and consumer electronics



Features and Benefits

- Low frequency design with high surge capability to start demanding loads
- True sinewave output will run heavy-duty motor loads and entertainment systems flawlessly
- Low battery shutdown to prevent total battery discharge
- System remote panel (included) provides vital system information
- Over temperature shutdown
- Mounting brackets and high quality DC connectors make installation simple
- Approved to UL, CSA, and European regulatory standards

Dimensions (W x L x H):

IC 1220100: 15.4 x 13.4 x 12.5"
(392 x 340 x 317mm)

IC 1230150: 15.4 x 13.4 x 12.5"
(392 x 340 x 317mm)

IC 244090i : 15.4 x 13.4 x 12.5"
(392 x 340 x 317mm)

Weight:

IC 1220100 : 50.0lb (22.7kg)

IC 1230150 : 59.4lb (27kg)

IC 244090i : 58.0lb (26.4kg)

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120 VAC Series

IC1220100, IC1230150

220VAC - 240VAC Series

IC244090i



Inverter	120 VAC Series		230 VAC Series
	IC 1220100 (12V, 2000W, 120VAC)	IC 1230150 (12V, 3000W, 120VAC)	IC 244090i (24V, 4000W, 230VAC)
Output Power (Continuous)	2000W	3000W	4000W
Output Power (Surge)	4000W (5 seconds)	6000W (5 seconds)	8000W (5 seconds)
Output (Voltage / Frequency)	120 VAC / 60 Hz		230 VAC / 50 or 60Hz
Peak Output Current	40A	80A	50A
Output Waveform	True Sinewave (<3% THD)		
AC Connections	Single phase in / single phase out	Split phase in / Dual out, Dual in/ Dual out	Single phase in / single phase out
Peak efficiency	90%		
No-load battery draw	< 3.5A (nominal), < 1A with load sense		
Load Sense Setting	< 100W (user selectable)		
DC Input Voltage (nominal)	12.5 Vdc		25.0 Vdc
DC Input Operation Range	10.5 - 15.5 Vdc		21.0 - 31.0 Vdc
Input Undervoltage Warning/Shutdown	11.2 Vdc / 10.5 Vdc		22.4Vdc / 21.0 Vdc
Input Undervoltage Recovery	11.8Vdc		23.6 Vdc
Input Overvoltage Shutdown	15.5 Vdc		31.0 Vdc
Output Power Warning/Shutdown	Warning/Error code		
Output Short Circuit Protection	Error code		
Temperature Warning/Shutdown	Warning/Error code		
Charger			
Charge Voltage Range	14.2 - 15.5 Vdc		28.4 - 31.0 Vdc
Float Voltage Range	13.4 - 13.8 Vdc		26.8 - 27.6 Vdc
Equalize Voltage (Flooded Battery)	16.0 Vdc		32.0 Vdc
Charger current (Maximum)	100 A	150 A	90 A
Charger current setting (Automatic)	Charger current maximized to AC input source		
Charge Control	Three stages (Bulk/Absorption/Float) with manual equalization		
Charging Battery Type	Gel, Flooded, AGM, Lithium		
Charge Temperature Compensation	Battery Temperature Sensor (optional)		
AC Input Voltage/Frequency	120 VAC/60 Hz		230 VAC / 50 or 60Hz
AC Input Voltage Range	85 - 140 VAC		180 - 265 VAC
Charger Efficiency	> 85%		
AC Input Power Factor (maximum charge)	0.98 typical		
Dead Battery Charging	> 3 Vdc		> 6 Vdc
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 Fault Code	Yes		
LED Indicator	Yes (Invert, Standby, Charging)		
AC Transfer Switch			
Transfer time	< 20 ms		
Transfer Relay(s)	30A		20A
AC Input connection	Hardwire Heavy Duty Connector		
AC Input Source Setting	15, 20, 30A		10, 15, 20A
AC Input and Output Port 1	30A with back up		20A with backup
AC Input and Output Port 2	Not Available	30A, no backup	Not Available
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)		
Regulatory Compliance			
Standards	UL 458 marine, CSA C22.2 No. 107.2-01		CE LVD
EMI/EMC	FCC Part 15 Class A		CE EMC
Accessories (optional)			
Battery Temperature Sensor	Adjust battery charging voltage based on measured temperature		



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