Abso Inverter-Charger

Deluxe Inverter-Chargers for emergency, commercial and recreational Vehicles

120V Output Series

IC1220100 (12V 2000W - 100A)

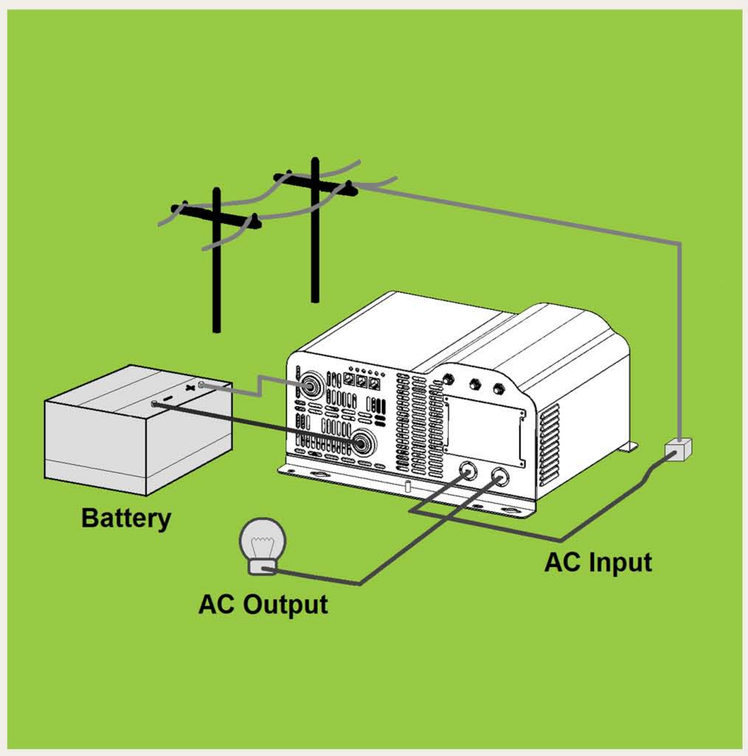
IC1230150 (12V 3000W - 150A)

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)

AWILCO

Inverter-Charger

Deluxe Inverter/Chargers for emergency, commerical and recreational vehicles

120 VAC Series

IC1220100, IC1230150

220VAC - 240VAC Series

IC244090i

	120 VAC Series		230 VAC Series
Inverter	**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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