

DICX™ Series



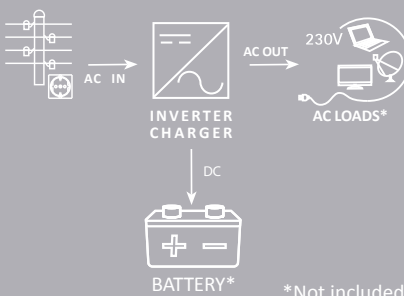
ISLANDERS-DICX1230120
24VDC / 4000W / 230VAC



HIGH QUALITY DC CONNECTORS
INSTALLATION SIMPLE



REMOTE CONTROL PANEL INCLUDED
DIGITAL DISPLAY - EASY TO USE



DICX™ Series

Deluxe True Sinewave Inverter/Charger

Product Overview

These new **ISLANDERS-DICX™ Series** Deluxe True Sinewave Inverter and Battery Charger are the ideal solution for off-grid, off-shore and backup power applications. Convert battery power to household AC power and recharge your batteries. Run your household appliances in your truck, boat and 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.

Available Models

DICX1220120 12VDC / 2000W / 120VAC - 60Hz / 100A

DICX1230120 12VDC / 3000W / 120VAC - 60Hz / 150A

DICX2440230 24VDC / 4000W / 230VAC - 50 or 60Hz / 90A

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

Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



SOLAR



WIND



MARINE
BOAT



CARAVAN
CAMPING



UPS-BACKUP
ENERGY



PROFESSIONAL



TELECOM
CATV



AGRICULTURAL



WORKS



TRAFFIC



Islanders™
Series

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DICX™ Series

Specifications

Inverter	120VAC Series		230VAC Series
	DICX1220I20 (12V, 2000W, 120VAC)	DICX1230I20 (12V, 3000W, 120VAC)	DICX2440I230 (24V, 4000W, 230VAC)
Output power (Continuis)	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	60A	50A
Output Waveform	True Sinewave (<3% THD)		
AC Connections	Single phase in/ single phase out	Single phase in/ Dual out, Dual in/dual out	Single phase in/ single phase out
Peak efficiency	90%		
No-loads battery draw	<3.5A (nominal), <1A with load sense		
Load Sense Settings	< 1000w (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	11.2Vdc/10.5Vdc		22.4Vdc/21.0Vdc
Input undervoltage Recovery	11.8 Vdc		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 - 15.5Vdc		28.4 - 31.0Vdc
Float Voltage Range	13.4 -13.8Vdc		26.8 - 27.6Vdc
Equalize Voltage (Flooded Battery)	16.0Vdc		32.0Vdc
Charge current (Maximum)	100A	150A	90A
Charge current Setting (automatic)	Charge 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
Charge 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		
Invert mode	Input Voltage/Current, Output Power		
Charge Mode	Charging status, Battery Voltage		
Warning and Fault Code	Yes		
Led Indicator	Yes (Invert, Standby, Charging)		
AC Transfer Switch			
Transfer Time	< 20ms		
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 backup		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 FCC Part 15 Class A		CE LVD CE EMC
EMI/EMC			
Accessories (optional)			
Battery Temperature Sensor	Adjust battery charging voltage based on measured temperature		



IS-2006216-GAH



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