A Complete Line of High Power DC-AC Inverters with Built-in Battery Chargers.

The circuitry of these Inverter/Chargers incorporates a technology which is field-proven and was carefully refined for years in both harsh industrial and sensitive utility applications. Now this rugged design is offered for marine applications where reliability and performance are paramount, and low noise operation has become a critical factor in the boat owner's choice of power products.

While incorporating numerous important features these inverter/chargers are engineered with a high functionality approach that installers will appreciate. All connectors and mounts are heavy duty commercial grade.

Ten models are available for use with 12, 24 or 32 volt battery systems and provide continuous rated AC power ranging from 1800 to 4800 watts at 115 VAC-60 Hz. The dual voltage models are a new addition to the line, ideal for large yachts and commercial vessels with power requirements for both 115 and 230 VAC equipment.

Called the "**Perfect Wave**" Series, these inverter-chargers deliver pure, sinusoidal* AC for flawless operation of all appliances and sensitive electronics. They are ideal for entertainment systems and microprocessor-based equipment such as computers which are intolerant to AC wave distortion.

* except model 2500IC, which produces quasi-sine wave



All models incorporate a built-in automatic transfer switch which activates multi-stage battery charger for rapid and safe replenishment of the inverter battery bank whenever shore or generator AC power is available.

All models feature numerous circuit and safety protections, such as thermally controlled cooling fans, low voltage cutout, thermal and overload protection and ground fault interruption, and are housed in rugged powder coated aluminum cases suitable for permanent horizontal or bulkhead mounting. An optional remote indicator and control panel is available for all models.

Features

- Rugged hostile environment-proven circuitry generates "Perfect Wave" AC for powering any appliance, from wattage-hungry refrigeration to highly input-sensitive computers, electronic controllers/processors.
- Built-in high output charger for rapid battery bank replenishment— all models feature three stage, temperature compensated charger with output programmable for gel-cell, flooded lead-acid or AGM battery type, and amp-hour capacity selector for proper charging in various applications.
- Internal charger is activated by an automatic transfer relay via remote sensor whenever external AC power is available.
 Optional Battery Integrator permits charging of multiple banks (see page 14)
- Designed for maximum ease of installation and operation installer and user-friendly. Large DC input terminal blocks and front panel GFCI protected outlet receptacles. AC output from the inverter may also be hard-wired.
- All important aspects of inverter and charger operation clearly displayed with front panel status indicators - optional remote panel available.
- Numerous safety and circuit protections: short circuit, overload, over-temperature, ground fault protection, output circuit breaker

- Thermally controlled cooling fan prolongs life of components
- Automatic low voltage shutdown circuit prevents damage to batteries due to over-discharge when using inverter function.
- Heavy duty powder coated aluminum construction and polyurethane coated internal circuitry—built to last in the harsh marine environment.
- UL listed with full two year warranty

Options/Accessories

- Remote control and indicator panel; ICR-2-25 provided with 25' of cable and ICR-2-50 provided with 50' of cable.
- Duplicates all status indicators found on unit front panel and allows remote ON/OFF capability
- Battery Integrator, Models BI-100, BI-200, and BI-24-100, enables of multiple isolated
- battery banks. (See page 14)AC and DC energy monitors.
- (See page 20)Inverter info center panel blanks.(See opposite page)
- High current fuse assembly. (See page 22)



Model: ICR-2-25 & ICR-2-50



Newport Beach, CA USA



Inverter-Chargers

Specifications

Model	12-1800IC	12-2500IC	12-3000IC*	12-3000IC-DV*		
Inverter Output:						
VAC	115V, 60 Hz.	115V, 60 Hz.	115V, 60 Hz.	115/230V, 60 Hz.		
Watts (Surge)	4000	5500	6500	6500		
Watts (Cont.)	1800	2500 3000		3000		
Wave Type	PS	QS	PS	PS		
Inverter Input:						
VDC	11-14	11-14	11-14	11-14		
Max Amps	180	250	300	300		
Charger Input:						
VAC	115V, 60 Hz.	115V, 60 Hz.	115V, 60 Hz.	230V, 60 Hz.		
Max Amps	15	15		10		
Charger Output:						
Max Amps@V	85A@12V	100A@12V	105A@12V	105A@12V		
Туре	three stage	three stage	three stage	three stage		
Case:						
Size Reference	I-2	I-2	I-3	I-3		
Weight: Lbs./Kg.	54/25	54/25	75/35	80/37		
Model	24-2200IC	24-4800IC	24-4800IC-DV*	32-2400IC		
Inverter Output:						
Inverter Output: VAC	115V, 60 Hz.	115V, 60Hz.	115/230V, 60 Hz.	115V, 60 Hz.		
Inverter Output: VAC Watts (Surge)	115V, 60 Hz. 6500	115V, 60Hz. 14,000	115/230V, 60 Hz. 14,000	115V, 60 Hz. 6500		
Inverter Output: VAC Watts (Surge) Watts (Cont.)	115V, 60 Hz. 6500 2200	115V, 60Hz. 14,000 4800	115/230V, 60 Hz.	115V, 60 Hz. 6500 2400		
Inverter Output: VAC Watts (Surge)	115V, 60 Hz. 6500	115V, 60Hz. 14,000	115/230V, 60 Hz. 14,000	115V, 60 Hz. 6500		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input:	115V, 60 Hz. 6500 2200 PS	115V, 60Hz. 14,000 4800 PS	115/230V, 60 Hz. 14,000 4800 PS	115V, 60 Hz. 6500 2400 PS		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC	115V, 60 Hz. 6500 2200 PS 22-28	115V, 60Hz. 14,000 4800 PS 22-28	115/230V, 60 Hz. 14,000 4800 PS 22-28	115V, 60 Hz. 6500 2400 PS 29-38		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps	115V, 60 Hz. 6500 2200 PS	115V, 60Hz. 14,000 4800 PS	115/230V, 60 Hz. 14,000 4800 PS	115V, 60 Hz. 6500 2400 PS		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input:	115V, 60 Hz. 6500 2200 PS 22-28 110	115V, 60Hz. 14,000 4800 PS 22-28 240	115/230V, 60 Hz. 14,000 4800 PS 22-28 240	115V, 60 Hz. 6500 2400 PS 29-38 100		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz.	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz.	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz.	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz.		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps	115V, 60 Hz. 6500 2200 PS 22-28 110	115V, 60Hz. 14,000 4800 PS 22-28 240	115/230V, 60 Hz. 14,000 4800 PS 22-28 240	115V, 60 Hz. 6500 2400 PS 29-38 100		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps Charger Output:	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz. 15	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz. 40	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz. 15	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz. 15		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz.	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz.	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz.	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz.		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps Charger Output: Max Amps@V Type	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz. 15	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz. 40	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz. 15	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz. 15		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps Charger Output: Max Amps@V Type Case:	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz. 15 40A@24V three stage	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz. 40 105A@24V three stage	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz. 15 105A@24V three stage	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz. 15 30A@32V three stage		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps Charger Output: Max Amps@V Type Case: Size Reference	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz. 15 40A@24V three stage I-2	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz. 40 105A@24V three stage I-3	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz. 15 105A@24V three stage I-3	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz. 15 30A@32V three stage I-2		
Inverter Output: VAC Watts (Surge) Watts (Cont.) Wave Type Inverter Input: VDC Max Amps Charger Input: VAC Max Amps Charger Output: Max Amps@V Type Case:	115V, 60 Hz. 6500 2200 PS 22-28 110 115V, 60 Hz. 15 40A@24V three stage	115V, 60Hz. 14,000 4800 PS 22-28 240 115V, 60 Hz. 40 105A@24V three stage	115/230V, 60 Hz. 14,000 4800 PS 22-28 240 230V, 60 Hz. 15 105A@24V three stage	115V, 60 Hz. 6500 2400 PS 29-38 100 115V, 60 Hz. 15 30A@32V three stage <u>I-2</u> 59/27		

Charger Characteristics:

Three stage "smart charger"; programmable via selector switch for gel, flooded lead-acid or AGM battery type; temperature compensated. Output voltage temperature compensated via provided battery temp sensor with 20' cable

Case Size References:

Case	Inches			Ce	Centimeters		
	H	W	D	н	W	D	
I-2	7.5	16.0	15.5	19.1	40.6	39.4	
I-3	10	17	16	25.4	43.2	40.6	



Operating Temperature (all models): -22° C to +40° C (0° F to 104°F)

Inverter Regulation: 120 VAC RMS (110V-127V)



Protection Features (all models):

- Automatic low battery shutdown
- Output circuit breaker
- Auto high temperature shutdown/recovery
- Short circuit protection
- Overload protection

Mechanical Features (all models):

- Thermally controlled cooling fan
- Dual GFCI protected duplex outlet
- AC hard-wire (optional)
- Powder coated aluminum case with shelf or bulkhead mounting flanges
- Polyurethane coated printed circuit boards



Newport Beach, CA USA



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