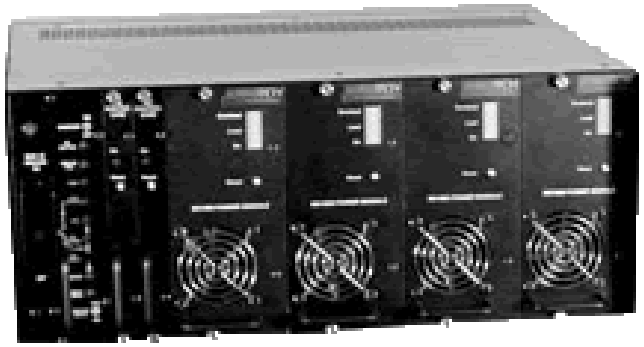
IE POWER

QUALITY STATIC POWER CONVERSION

IE SERIES INVERTER

N+1 Redundant
True Sine Wave
Remote Metering
"Hot" Insertable
Expandable
Adjustable Power
Remote Switching
1000 Watt Modules
Ideal for Telecom Applications



IE Power Inc. offers one of the industry's smallest and most efficient 1KW inverter. The IE Series of modular inverter modules and accessories can be configured in many combinations to offer the user infinite flexibility in power levels from **1000 Watts to 5KW** with **120 Vac or 230 Vac** output in a 19" or 23" relay rack case, only 7" high. Additional cases allow for higher power configurations **above 5KW**.

N+1 Redundant - Expandable: In this configuration the IE SERIES inverter offers the first truly redundant, modular inverter system available. No single malfunction will cause the inverter system to fail. For **ease of maintenance, modules are "hot" insertable.** Power levels are **expandable**, and inverter modules can be upgraded or replaced while the system is on line **without interruption in power** to your critical loads. Additional cases allow for higher power configurations **above 5KW**.

Upgradable Inverter System: The IE SERIES system can be expanded and upgraded as user power requirements increase. Up to five, 1000 Watt power modules can be combined to create a standard inverter in a single 19" relay rack width. A transfer module and alarm card can be added to create an uninterruptible system. Additional cases allow for higher power configurations **above 5KW**.

The IE SERIES system is **extremely compact and lightweight**. The individual 1KW power modules are only 7" high and weigh only 7lbs. each.
The output voltage is **precisely regulated** to within +/-0.5% for load variations from 0-100% load over the wide input voltage ranges. With distortion of 2% maximum, this inverter offers the **cleanest sine wave power available**.

Models are available which cover 12, 24, 32, 48, 66, 108 and 120 Volt battery systems. Custom models can be designed to meet your specific requirements.

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IE Series Technical Specifications

Output Power						
Cont. Power	Surge Power	No Load Power	Output Voltage	Output Current	Case Size	Weight
500W*	1100W	10W	117	4.3	A	7
1000W	2200W	20W	117	8.6	A	7.5
* derated 1 KW module for convection cooled applications						

Input					
Model Voltage	Min (Typ)	Sys (Typ)	Max (Typ)	Typ Eff. @ Full Power	Peak Eff. @ 1/3 Power
12V	10.4/10.6V*	13.8V	17V	85%	87%
24V	19/21V*	27.6V	34V	87%	89%
32V	26.5/28V*	36.8V	45V	87%	89%
48V	41.5/42.5V*	55.2V	62V	87%	89%
66V	57.5/58.5V*	75.9V	94V	88%	90%
120V	104/109V#	138V	167V	88%	90%
* indicates typical cut-ff voltage / warning buzzer voltage					

General			
Conditions	Min	Typical	Max
Waveform	-	Sinusoidal	-
Volt. Output	111.2	117V	122.9
Also 230, 240 VAC; 50 - 60 - 400Hz			
Line Reg.	-	Nominal	0.5%
Load Reg.	-		0.5%
Distortion	-		2%
Frequency	-1%		+0.1%

Alarm Card	
Indicators	Inverter on, DC on, Load on, Inverter fail, Low Voltage, Breaker open, and High Temp
Alarms - 1 set each; Form "C" contact closures 1 Amp @ 120Vdc	Inverter fail, DC fail, AC fail, Major and Minor
Controls	Output Breaker Switch, On/Off

Protection Circuitry		Environmental	
Over Voltage:	Shut-off at maximum input voltage per input conditions	Temperature:	-25C to 40C full power, derated above 40C
Under Voltage:	Shut-off at minimum input voltage, per input conditions	Humidity:	5% to 95% non-condensing
Thermal:	105C internal temperature. Warning buzz 5C before shut-off.	Altitude:	-200 to 10k feet full power, derated above 10k
Output Short:	Unit shuts off. Circuit breaker protected.	Audible Noise:	Less than 45dbA
Input Polarity:	Fuse protected, otherwise unit damaged.	Cooling:	1KW-Thermostatically controlled forced air 500W-Convection

Mechanical	
Four (4) rack mount cases are available; all are 7" high by 15" deep.	
19"	"A" configuration holds Transfer Switch / Alarm Module, 2 Control Cards, and 4 Power Modules
23"	"A" configuration holds Transfer Switch / Alarm Module, 2 Control Cards, and 5 Power Modules
19"	"B" configuration holds 5 Power Modules, this is for expansion only.
23"	"B" configuration holds 6 Power Modules, this is for expansion only.
(Also available is a 7" case for 1KW or 2KW applications - 7"W x 7"H x 15"D)	