

Model IP2000 Inverter Module



IP2000 Stand Alone Inverter

Main Features

- Employs affective full bridge PWM technology
- Automatic emergency BYPASS increases unit reliability
- Available in either standalone or parallel modifications

Option

Economy standby mode with internal STSW (Standalone only)

Model IP2001 Parallel Inverter System

Main Features

- Flexible modular structure
- Redundant N+1 topology
- Automatic Static Switch to increase system reliability and overload capability
- Zero Time load transfer from inverters to Static Switch and vice-versa
- Hot-swap inverter connections
- Full digital control by fast RISC microcontrollers
- Active load sharing system
- Protection against energy circulation between inverters

Option

High performance controller for monitoring, alarms and communications



IP2001 Parallel Inverter System

POWER	2kVA	3kVA
Topology	MOSFET bridge with output isolation transformer	
Control	Microcontrolled	
INPUT		
Voltage	48Vdc (nominal) 42 ÷ 57Vdc	
Current	47A max	70A max
Psophometric Noise	<2mV	
Protection	Circuit Breaker, Reverse Polarity	
Low Voltage Shutdown level	42 ± 0.5V	
BYPASS INPUT Standalone modules only		
Voltage	220/230Vac (110 option)	
Frequency	50Hz (60Hz)	
Current	10A max - 220Vac (20A amx - 110Vac)	14A max - 220Vac (28A max - 110 Vac)
Protection Fuses	10A for 220Vac (20 max - 110 Vac)	15A for 220Vac (30 for 110 Vac)
OUTPUT		
Power	2kVA/1.6kW	3kVA/2.4kW
Voltage	220/230Vac (110Vac option) ±2%	
Efficiency	>85%	
Frequency	50Hz or 60Hz	
Static Regulation	<±2%	
Dynamic Regulation	<±5%	
THD	<2% @ linear load	
Crest Factor	3:1 max	
Inverter Overload Capability	Inom<lout<1.25*Inom during 10 min. 1.25*Inom<lout<1.5*Inom during 10 sec.	
Protections	Circuit Breaker, Fuse, Over-Current, Short Circuit	
GENERAL		
Acoustic Noise	55dBA @ 1m	
Remote Control	ON/OFF	
Alarm	Dry contact relay, audible alarm, LEDs	
Indications	Three-digit, seven-segment display+10 LEDs	
Control	On/Off swithces, display and a reset button	
Temperature		
Operating	-10°c to +40°c	
Storage	-40°c to +70°c	
Relative Humidity	<95% @ 40°c non-condensing	
MTBF	100,000 Hrs	
Isolation	1.5KVac Input-ground, Output-Ground, Input-Output	
Safety	IEC950, EN 60950 Compliant	
Dimensions W X D X H	480 X 400 X 185mm	
Weight	<26Kg	<32Kg

All specifications are typical and subject to change without prior notice