

*We will find a product or make a new one*

## ***Modular Inverter***

### ***INV SERIES***

***48VDC-220VAC***



### **Modular Inverter systems**

Hannibal Modular Inverter is an Inversion Device that Converts 24Vdc, 48Vdc, 110Vdc, and 220VDC Power Supplied by Communication DC Power Supply into 220Vac 50Hz Sinusoidal AC Power.

It is Designed with Complete Isolation of Input and output And Allows hot Plugging and Parallel Connection redundancy. With a Small Size and Convenient Parallel Connection.

It is a Product Specially Designed for Users with High Requirements for power Supply reliability and maintainability.



## ■ DIGITAL CONTROL

Use 32-bit DSP Digital and high-frequency SPWM Technology

### • N+1 REDUNDANCY DESIGN

It Can Form an N+1 Parallel Connection redundancy power supply system

### • PARALLEL CONNECTION TECH WITHOUT MASTER/SLAVE

Operation and Parallel Connection of Each module are independently controlled by the built-in DSP

### • MODULAR HOT-PLUGGABLE

It Allows "Plug- And Play "without Any Parameter Setting or operation

### • BUILT-IN BYPASS

User May choose inverter priority or bypass Priority.

### • MONITORING MANAGEMENT

The Indicator Lamp Panel Can give Out Sound and Light Alarm upon Fault

### • PROTECTION

It has Protection against input Over voltage /Under Voltage, output Over voltage/under Voltage

## GENERAL SPECIFICATIONS

- High frequency commutated Modules (IGBT)
- Modules cooled by forced ventilation
- 19" rack and cabinet mount configurations
- Possibility of redundant module operation
- Room temperature probe included in the equipment
- LVD (Battery Low Voltage Disconnect)
- Output breakers for loads
- Audible & LED Alarm
- User-friendly HMI (All parameters, and calibrations can be made through the front panel)
- High-frequency

## Technical Datasheet

	HPT48/220-3KVA	HPT48/220-6KVA
INPUT		
AC Input Voltage	220Vac(Single Phase, L+N+G ) ,Valid Range 180-255Vac	
Battery Input Voltage	48Vdc	
Battery Voltage Range	42-58Vdc	
Cooling	Fans (Temp.Control Speed According to the output capacity)	
DC Input Current	62.5A	125A
Inverter Module QTY	01	02
OUTPUT		
Output Capacity	3KVA	6KVA
Rated Output Capacity	2.4KW	4.8KW
Rated output Voltage	220VAC±5%	
Rated Output Current	10.9A	20.86 A
Output Voltage Range	220Vac(Tolerance ±1.5% @Inverter Mode)	
Output Efficiency	≥97% (Bypass Mode) ,>90%(Inverter Model)	
Output Frequency	50Hz±0.2Hz	
Output Wave	Pure sine wave	
THD	≤3% (Line Load)	
Switch Time (By pass to Inverter mode)	≤10ms (With Load)	
PROTECTIVE FEATURE		
AC Under Voltage Switch Protection	≤170Vac (Backlash voltage±3Vac)	
AC over Voltage Switch protection	≥255Vac(Backlash voltage≥±3Vac)	
Over-Temperature	Yes (Auto Switch)	
Battery under voltage Recovery point	42.4VDC	
Battery Low-voltage alarm	40.4VDC	
Battery overvoltage protection point	≥60VDC	
Battery overvoltage recovery point	≤58VDC	
OUTPUY OVER CURRENT PROTECTION		
Over Load Capacity	Load Current <105% Continue working	
	Load Current 105~125% Contiune working 1 min,power off	
	Load Current >125% 20ms later Shutdwon	
Over Temp. Protection	Yes	
SAFETY AND EMC		
Dielectric strength (AC-Chassis)	3500Vdc/10mA//1min .No flash over, no breakdown, no arc (Only AC Input priority)	
Dielectric strength (DC-Chassis)	750Vdc/10mA/1min. No flash over, no breakdown	
LVD	EN 60950-1,EN62368-1	
EMC/EM I	EN 61000-6-3; EN 61000-6-1 ;IEC 61000-6-2 and IEC 61000-6-4	
ROHS	IEC62321-4, IEC 62321-5,IEC 62321-6,IEC 62321-7,IEC 62321-8	
ENVIRONMENT TEST PERFORMANCE		
Ambient Temp.	-5~ +50℃	
High temperature operation	45±2℃ (rated load 24H)	