

# Rack Mount Power Inverter ATP 1000 Series

Power: 4-6 KVA

Input voltage: 120 VDC

Output voltage: 220VAC



The pure sine wave ATP-1000 Series inverters are a new expand customize inverter. This Series is a professional 19" rack enclosure with a wide range of options to suit applications.



## Overview

This type Rack mount Inverter with a new generation of dual input inverter solution designed for the field of communication applications, which is suitable for the high reliability of the communication system. The solution is equipped with 220VAC power supply and 120VDC power Input, which fills the gap between the traditional UPS power supply and common pure sine wave inverter solutions.

It uses a novel design structure that helps users to provide Pure, stable and durable AC power for critical loads, and has the same high reliability as the AC power supply system. The design characteristics of the dedicated communication pure sine wave inverter ensure the seamless conversion between the AC and DC power supply, almost no conversion delay, and build in the static switch.

## Feature

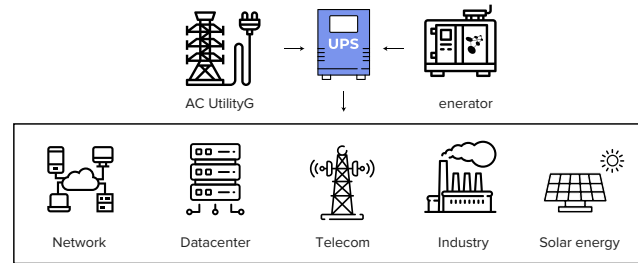
- 1 Standard 19" Rack mount 2 RU Chassis.
- True sine wave output (T.H.D < 3%).
- Large 128\*64 digital LCD display data information, 4 led display working.
- 5 Routes Dry contact for system (DC input fault, AC input fault, overload information, by-pass information and output fault).
- RS232 and RS485 & Optional SNMP communication Port.
- Power-on self-test, Soft output start, start auto restart while Ac or Dc is recovering.
- Auto switch function: DC to AC, AC bypass, less than 5ms.
- Real-time monitoring of the system operating status, Audible and visual alarm.



## Application fields

Specially designed for the protection of sensitive equipment in general

- Network equipment
- Telecommunication
- Data Center
- Solar Power System



## Technical specifications

MODEL	INV4000-120/220	INV5000-120/220	INV6000-120/220
<b>INPUT</b>			
Battery Input Voltage	100~150Vdc		
Battery Voltage Range	120Vdc		
DC Input Current	40 A máx.	50 A máx.	60 A máx.
Bypass Input Voltage	220VACNorm		
Bypass Voltage Range	170~270Vac		
AC Input	50/60Hz		
Frequency Range	47~67Hz		
PF	>0.8		
<b>OUTPUT</b>			
Output Capacity	4000VA	5000VA	6000VA
Rated Output Capacity	3200W	4000W	4800W
Rated output Voltage	220VAC (Inverter Mode )		
Rated Output Current	14.54 A	18.18 A	21.8 A
Output Voltage Range	220Vac(Tolerance $\pm 1.5\%$ @Inverter Mode)		
Output Efficiency	$\geq 85\%$ (Inverter Mode)		
Output Frequency	50/60Hz		
Output Wave	Pure Sine Wave		
THD	$\leq 3\%$ (Line Load)		
Switch Time (By pass to Inverter mode)	$\leq 5\text{ms}$ (With Load)		
<b>PROTECTIVE FEATURE</b>			
AC Under Vol. Switch Protection	$\leq 176\text{Vac}$ (Backlash voltage $\geq 10\text{Vac}$ )		
AC over Volt. Switch protection	$\geq 264\text{AC}$		
Over-Temperature	Yes (Auto Switch)		
BAT. under vol. protection point	$\leq 95\text{VDC}$		
Battery Low-voltage alarm	$90\text{VDC} \pm 0.5$		
Battery overvoltage protection point	$\geq 155\text{VDC}$		
Battery overvoltage recovery point	$\geq 150\text{VDC}$		

OUTPUT OVER CURRENT PROTECTION	
Over Load Capacity	Continue working 60s @101%<load<120%
	Continue working 10s @121%<Load<150%
Over Temp. Protection	Yes
short circuit Protection	Yes (Don't test under AC Connect)
Reverse connection protection	Yes
Output OVP	≥264VAC(Inverter Mode)
Output low voltage alarm	≤176VAC (Inverter Mode)
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
EMC/EM I	EN 61000-6-3; EN 61000-6-1 ;IEC 61000-6-2 and IEC 61000-6-4
ROHS	IEC 62321-4 , IEC 62321-5,IEC 62321-6,IEC 62321-7,IEC62321-8
ENVIRONMENT TEST PERFORMANCE	
Ambient Temp.	-20° +50°C
Cooling	6 * Fans
High temperature operation	50±2°C (rated load 24H)
Low temperature operation	-20±2°C(rated load 24H)
High temperature storage	80±2 °C 24H
Low temperature storage	-40±2°C 24H
Humidity	0°90% No moisture condensation
Operating Altitude (m)	Altitude Full power up to 2000m. >2000m derating -2% / 100m, max altitude 5000m
COMMUNICATION	
RS232 & RS485	Yes
SNMP	Optional
Dry Contact	5 group
LCD DISPLAY	
LCD Status	Input and output Voltage, Frequency, Output Current, Temp., Load Rate, etc.
Inverter Status	Normal Mains, Normal Inverter, Battery Under-voltage and output overload etc.
MEASUREMENT	
Size W*D*H(mm)	482 * 430 * 88 mm (2RU)
Weight	15KG

## Live Product

