

# TELECOM 19 INCH RACK-MOUNT INVERTERS

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

2RU RACK MOUNT  
INVERTER  
INPUT 48VDC  
POWER 4800W/6000VA  
OUTPUT 120VAC



## Description

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 120V AC power supply and 48V DC 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

- ✓ 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;
- ✓ Record the historical alarm message and can be queried;
- ✓ Build in voltage regulator Stabilize AC voltage;
- ✓ Maintenance bypass /DC available;
- ✓ Protection :Short load protection, over load protection, battery over/under voltage protection, over current, over temperature;

## Technical Data

Model		BWT48/120-6KVA
<b>INPUT</b>		
AC Input Voltage	98-144AC	
Battery Input Voltage	48Vdc	
Battery Voltage Range	45.5-57Vdc	
Cooling	6*Fans (Temp.Control Speed According to the output capacity)	
DC Input Current	131.86Max	
Output Frequency	60Hz±1%	
<b>OUTPUT</b>		
Output Capacity	6000VA	
Rated Output Capacity	4800W	
Rated output Voltage	120VAC (Inverter Mode )-	
Rated Output Current	40A	
Output Voltage Range	120Vac(Tolerance ±1.5% @Inverter Mode)	
Output Efficiency	≥85% (Inverter Mode)	
Output Frequency	60Hz	
Frequency Range	57~63Hz	
Output Wave	Pure sine wave	
THD	≤3% (Line Load)	
Switch Time (By pass to Inverter mode)	≤5ms (With Load)	
<b>PROTECTIVE FEATURE</b>		
AC Under Voltage Switch Protection	≤88VAC (Backlash voltage≥5Vac)	
AC over Voltage Switch protection	≥132VAC	
Over-Temperature	Yes (Auto Switch)	
Battery under voltage protection point	≤40VDC	
Battery Low-voltage alarm	43VDC±0.5	
Battery overvoltage protection point	≥60VDC	
Battery overvoltage recovery point	≤57VDC	
<b>Output Over Current Protection</b>		
Over Load Capacity	Continue working	@overload 110%
Over Load Capacity	Continue working 60s	@ overload 110%~130%
Over Load Capacity	Continue working 10s	@over load >150%
Over Temp. Protection	Yes	
short circuit Protection	Yes (Don't test under AC Connect)	
Reverse connection protection	Yes	
Output OVP	≥132VAC(Inverter Mode)	
Output low voltage alarm	≤88VAC (Inveter Mode)	
<b>SAFETY AND EMC</b>		
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

IEC62321-4, IEC 62321-5,IEC 62321-6,IEC 62321-7,IEC 62321-8

### ENVIRONMENT TEST PERFORMANCE

Ambient Temp.	-20~ +50℃
High temperature operation	50±2℃ (rated load 24H)
Low temperature operation	-20±2℃ (rated load 24H)
High temperature storage	80±2℃, 24H
Low temperature storage	-40±2℃, 24H
Humidity	0~90%, No moisture condensation
Operating Altitude (m)	Altitude Full power up to 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, LOGO etc.
Inverter Status	Normal Mains, Normal Inverter, Battery Under-voltage and output overload etc.

### MEASUREMENT

Size W*D*H(mm)	482mm *410mm*88mm (2RU)
Weight	15KG

## Live Product



[Contact Bwitt for data sheets and characterization details. Due to product development, specifications are subject to change without prior notice.](#)

[sales02@bwitt.com.cn](mailto:sales02@bwitt.com.cn) [WWW.BWITT.COM.CN/EN](http://WWW.BWITT.COM.CN/EN)

[Add:Bldg 8, Sunshine Industry Park, Xili town,Nanshan , Shenzhen , Guangdong, China](#)

[Tel:+86 755 21007420 Fax:+86 755 2983220786 Phone:8615307200395](#)