

# 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/4RU RACK MOUNT

### INVERTER

INPUT 48VDC

OUTPUT 230VAC



## 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 230VAC power supply and 48VDC 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(1-6KVA)/ 4RU(8-10KVA) 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	BWT48/230	BWT48/230	BWT48/230	BWT48/230	BWT48/230	BWT48/230	BWT48/230	BWT48/230
	-1KVA	-2KVA	-3KVA	-4KVA	-5KVA	-6KVA	-8KVA	-10KVA
<b>INPUT</b>								
AC Input Voltage	170-270VAC							
Battery Input Voltage	48Vdc							
Battery Voltage Range	42-58Vdc							
Cooling	2*Fans	4*Fans	6*Fans			4*Big Fans		
DC Input Current	23.8A Max	47.6A Max	71.2A Max	95.2A Max	119A Max	142.86A Max	190.48A Max	237A Max
Output Frequency	60Hz±1%							
<b>OUTPUT</b>								
Output Capacity	1KVA	2KVA	3KVA	4KVA	5KVA	6KVA	8KVA	10KVA
Rated Output Capacity	800W	1600W	2400W	3200W	4000W	4800W	6400W	7000W
Rated output Voltage	230VAC (Inverter Mode )							
Rated Output Current	3.48A	6.96A	10.43A	13.91A	17.39A	20.87A	27.83A	30.43A
Output Voltage Range	230Vac(Tolerance ±1.5% @Inverter Mode)							
Output Efficiency	≥85% (Inverter Mode)							
Output Frequency	50Hz							
Frequency Range	47~53Hz							
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	≥140VAC							
Over-Temperature	Yes (Auto Switch)							
Battery under voltage protection point	≤40VDC							
Battery Low-voltage alarm	42VDC±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	≥135VAC(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/IEC 62368-1							

EMC/EM I EN 55032:2015,EN55035:2017,EN /IEC 61000-3-2,EN/ IEC 61000-3-3

ROHS IEC62321-4,IEC62321-6,IEC62321-7

**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 groups of passive dry contacts respectively for DC input fault,AC input fault,overload information,by-pass information and output fault

**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**

	1KVA	2KVA	3KVA	4KVA	5KVA	6KVA	8KVA	10KVA
Size W*D*H(mm)	482*347*88mm			482*410*88mm		482*176*436mm		
Weight	10KG			14KG		30KG		

**Live Product**

