

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 24VDC
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 24VDC 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	BWT-24-220-1K-R	BWT-24-220-2K-R	BWT-24-220-3K-R
INPUT			
AC Input Voltage	170-270VAC(230V _{Norm})		
Battery Input Voltage	24Vdc		
Battery Voltage Range	22-28Vdc		
Cooling	2*Fans		4* Fans
	Temp.Control Speed According to the output capacity		
DC Input Current	45.45A Max	90.9A Max	136.36A Max
Output Frequency	60Hz±1%		
OUTPUT			
Output Capacity	1000VA	2000VA	3000VA
Rated Output Capacity	800W	1600W	2400W
Rated output Voltage	230VAC (Inverter Mode)		
Rated Output Current	3.48A	6.96A	10.43A
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)	≤5ms (With Load)		
PROTECTIVE FEATURE			
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	≤20VDC		
Battery Low-voltage alarm	21.5VDC±0.5		
Battery overvoltage protection point	≥20VDC		
Battery overvoltage recovery point	≤28.5VDC		
Output Over Current Protection			
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)		
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/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	
Size W*D*H(mm)	482mm *347mm*88mm (2RU)
Weight	10KG

