



Features:

- True sine wave output (T.H.D <3%)
- Standard 19" Rack mount case
- Power-on self-test, Soft output start
- Auto switch function: DC to AC, AC bypass, less than 5ms
- By-pass AC 230V input filtering
- Start auto restart while AC or DC is recovering
- Automatic temperature control fan
- Build in voltage regulator Stabilize AC voltage
- Maintenance bypass /DC available
- Protection: Short circuit protection, over load protection, battery over/under voltage protection, over current, over temperature
- 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
- Audible and visual alarm
- Real-time monitoring of the system operating status
- Large 128*64 digital LCD display
- 4 status leds
- Unattended operation: the system switches automatically to provide AC Power to the load between the DC input and AC input

Description

BW***-DA series inverter is 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.

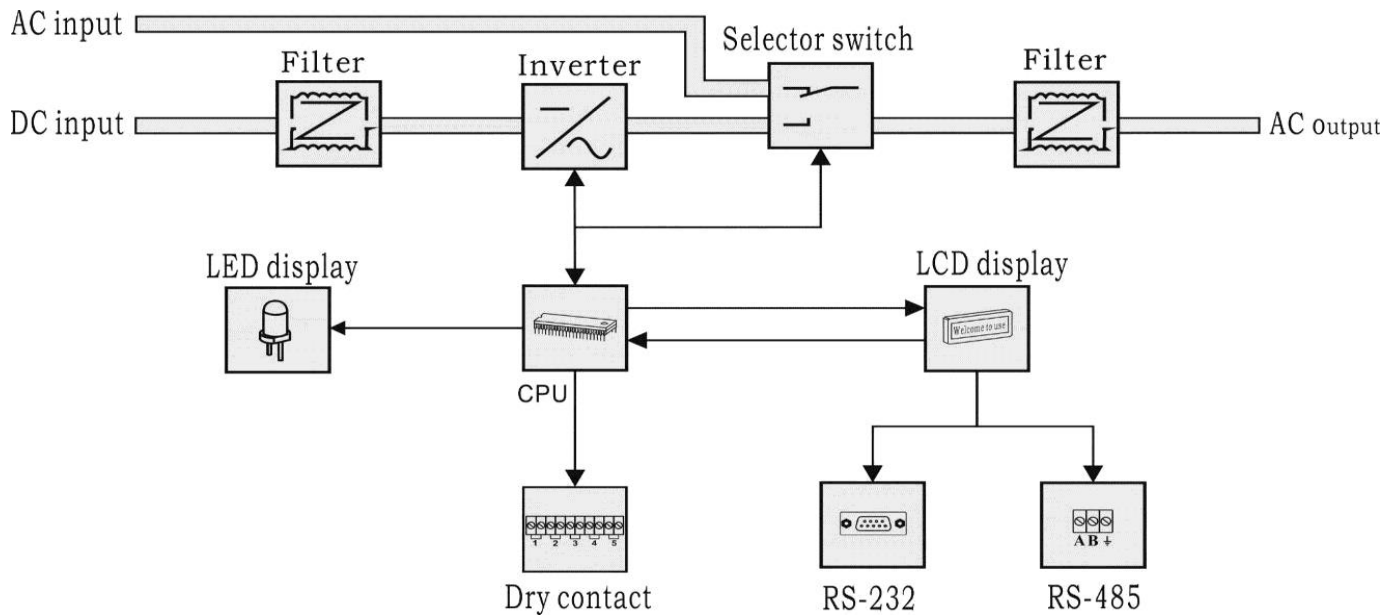
The solution is equipped with a 96V/110V/220V/230V AC power supply and a 12V/24V/48V/110V/220V DC power supply, which fills the gap between the traditional UPS power supply and common pure sine wave inverter solutions.

It uses a novel design structure that helps users to provide clean, stable and durable AC power for critical loads, and has the same high reliability as the DC 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 no need to use a static switch.

Specifications

	BW8000-DA48 BW10000-DA48	BW8000-DA110 BW10000-DA110	BW8000-DA220 BW10000-DA220
Input DC voltage	48V	110V	220V
DC voltage range	45.5 - 57V	104 - 131V	208 - 260V
Low voltage alarm	45V ±0.5V	103.5V ±0.5V	207.5V ±0.5V
Low voltage shutdown	40V ±0.5V	90V ±0.5V	180V ±0.5V
Over voltage shutdown	60V ±0.5V	135V ±0.5V	275V ±0.5V
Recovery voltage	45.5 - 57V	104 - 131V	208 - 260V
Output AC voltage	230VAC ±1.5% (115VAC output possible on request)		
Output AC current	BW8000-DA** BW10000-DA**	29A 36.3A	
AC Regulation	THD≤3%		
Power factor	>0.8		
Wave form	Pure Sine Wave		
By-pass Switch time	≤5ms		
Frequency	50Hz, auto sync with bypass input (60Hz available on request)		
Efficiency	≥85% (80% linear load)		
Output capacity	BW8000-DA** BW10000-DA**	8kVA 10kVA	
Output power	BW8000-DA** BW10000-DA**	6400W 8000W	
Overload	100%-120%: 60s 121%-150%: 10s		
Start	Soft-start		
Cooling	6 fans, Intelligent Cooling		
Protection	Internal Protection	Overload Protection, Over temperature protection, Short circuit protection, Input AC voltage limit protection, Reverse polarity on DC input side.	
	Input DC Voltage Alarm	Battery Under-voltage	
	LCD Audible and visual alarm	Flash Red LED light and Beeb	
	Temperature	Temperature control fan	
	Short Circuit	LED Red light on	
	Alarm record	Standard is 1000 events, minimum is 100	
Interface	5 Dry relay contacts	For remote indication of alarm / shut down conditions	
	RS232 & RS485	For remote operation and monitoring	
	Option	SNMP, TCP/IP	
Isolation	between output and input	3500Vdc/10mA//1min.	
	between input and chassis	3500Vdc/10mA//1min.	
	between output and chassis	750Vdc/10mA//1min.	
	Dielectric strength	1500Vac 1min.	
Working temp.	-20°C - +50°C		
Humidity	5...90%, non-condensing		
Operating Altitude	Full power up to 2000m. Above: derating -2% / 100m, max altitude 5000m		
Noise (1m distance)	≤40dB		
Certification	EN61000-6-1:2007 EN61000-6-3:2007 EN61000-3-2:2014 EN61000-3-3:2012 EN61558-1:2005+A1:2009 EN61558-2-17:1997		
Dimensions (WxDxH)	482 x 470 x 176mm 4U		

Hardware structure and working principle

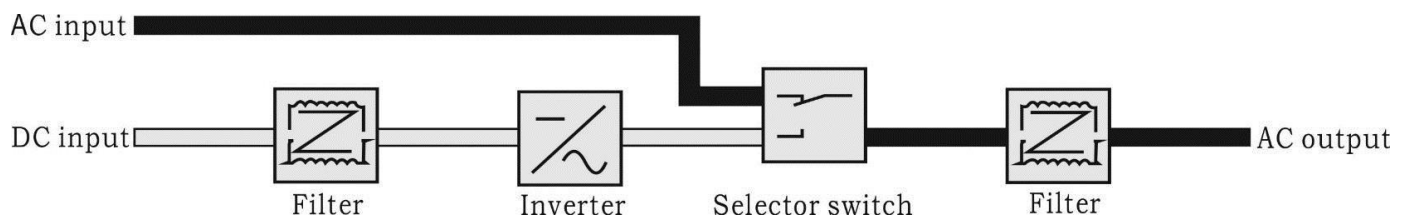


Power supply mode

The inverter can be used with AC or DC as the primary power source. Default setting is AC priority. This setting can be changed in the menu, accessible by the LCD screen and menu buttons.

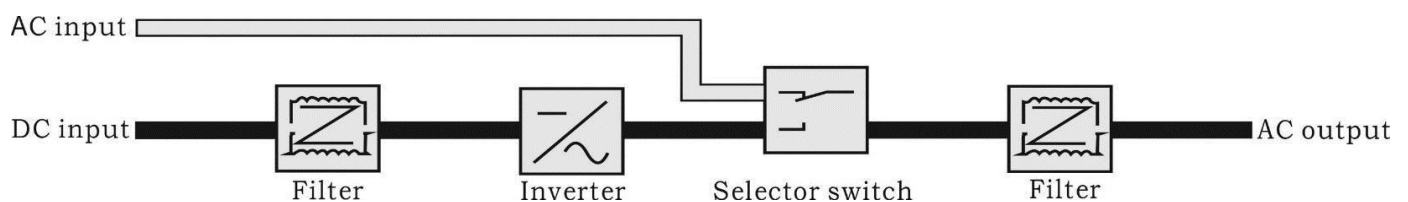
AC priority mode

Namely AC inverter working mode: the inverter employs mains for load when there is mains and switches to inverter working mode when the mains is abnormal.



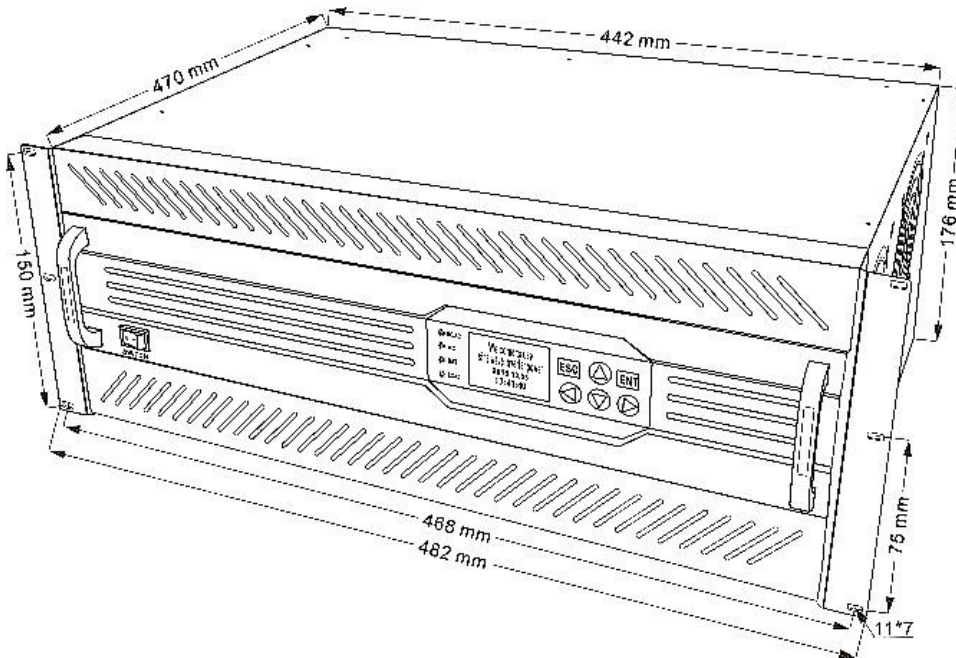
DC priority mode

Namely DC-dominated inverter working mode: under normal condition, DC-dominated inverter is under inverter output status all the time; in case of DC fault, it switches to mains by-pass.

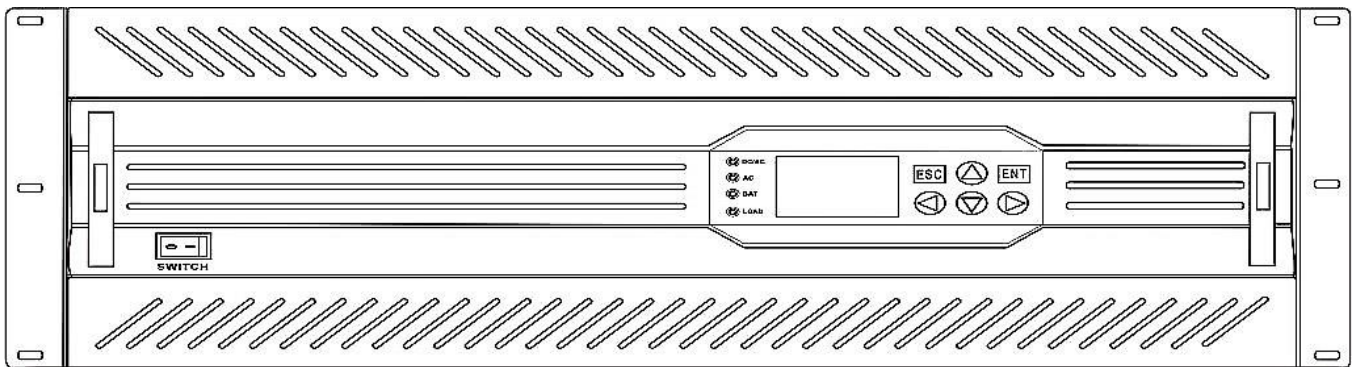


Enclosure

Dimensions



Front panel



Back panel

