

ZXDU48 B600 60A



Product Description

1U height, can be installed in a 19-inch rack

ZXDU48 B600, 3 LOAD, 1 BATT

Supports 220V single-live wire voltage input and 110V dual-live wire input

Operates in the phase-to-neutral voltage range from 85V to 295V

Operates in the AC range from 45Hz to 66Hz

The rated DC output voltage is -53.5V and continuously adjustable from -42V to -58V

Provides input/output dry contacts and RS232 ports

ZXDU48 B600 is 1U (height) x 19-inch (width) embedded DC power system that can supply power to -48V series communication devices. Comprises a PDU unit, a CSU and [ZXD1500](#) rectifiers.

ZXDU48 B600 power system complies with the RoHS (2002/95/EC) requirements in the European Union.

Tech Specs



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Specification	
Item	Description
Operating temperature	-33°C to +55°C Sheds the load when they system operates in a temperature higher than 55°C
	Powers off automatically when the system temperature is higher than 75°C
Storage temperature	-45°C to +70°C
Relative humidity	5% to 95% (non-condensing). It is recommended that the relative humidity is in the range of 40% to 60%
Altitude	0m to 2000m: Outputs in full power 2000m to 3000m: Derated by 1% for every 100m increase of altitude
Space requirement	The system must be installed in a 19-inch cabinet or rack. The system must be horizontally installed. The cabinet must be definitely vertical. No bump is allowed.
	There should be no liquid or conductive objects within, or dropping into the cabinet.
	The system must not be installed near any water, corrosive gas, or explosive materials.
	There should be no conductive dust or electromagnetic interference in the vicinity.
System capacity	3200W/66A. Two ZXD1500 rectifiers are required for full configuration
System efficiency	Peak efficiency: 95%
Power limitation based on the input voltage	AC input $\leq 85\text{ V} \pm 5\text{ V}$ The output power of the rectifier is 0%.
	AC input (85 V $\pm 5\text{ V}$) to 110 V The power drops linearly. The output power of the rectifier ranges from 40% to 60% of the overall power.
	AC input 110 V to 176 V The power drops linearly. The output power of the rectifier ranges from 60% to 100% of the overall power.
	AC input 176 V to (305 V $\pm 5\text{ V}$) The output power of the rectifier is 100%.
	AC input >305 V $\pm 5\text{ V}$ The output power of the rectifier is 0%.
Power limitation based on the temperature	Ambient temperature: -33°C to +55°C The output power of the rectifier is 100%
	Ambient temperature: +55°C to +75°C The output power decreases linearly as the temperature rises. When the environmental temperature reaches 70°C, the output power is no lower than 62.6% of the maximum power.
	Ambient temperature: >+75°C The output power of the rectifier is 0% (power-off protection)



Over all noise (sound pressure)		≤68 dB(A)
Network architecture for monitoring		RS232 ports connected in series
Mean time between failures		MTBF≥3.2x 10 ⁵ h
Design life		10 years to 15 years
Input AC features	AC input mode	Three-wire single-phase system (LN/PE). Compatible with dual-live wires (L1/L2/PE)
	Input AC voltage	Rated phase-to-neutral voltage: 200 V to 240 V Range of phase-to-neutral voltage: 85 V to 295 V
	Input frequency	Rated frequency: 50 Hz/60 Hz Frequency range: 45 Hz to 66Hz
	Input PF	The PF is no lower than 0.996 at the rated load.
	Total harmonic distortion	THD≤5% when the system operates at a power ranging from 30% to 100% of the rated power.
AC power distribution	AC lightning protection	A lightning protection module is embedded in the rectifier.
	Number of AC inputs	1
	AC input circuit breaker	3xrimping terminals
	Stanby AC output	—
Protection feature	AC overvoltage protection	The overvoltage protection takes effect when the single-phase input voltage is higher than the AC overvoltage protection threshold.
	AC undervoltage protection	The undervoltage protection takes effect when the single-phase input voltage is lower than the AC under voltage protection threshold.
	Rated DC output voltage	-53.5 V DC
Output DC properties	Range of the DC output voltage	Continuously adjustable from -41 V to -58 V (adjust by the CSU)
	Voltage drop in the cabinet	≤500 mV
	Regulated voltage precision	≤0.6%
	Psophometrically weighted noise voltage	≤2 mV
DC power distribution	DC lightning	Maximum current of the lightning arrester: I _{max} = 3 kA (8/20 μs)
	Battery inputs	One input. 1 x 30 A, configured with a 40 A fusible link
	Power-off protection mode	Battery Low Voltage Disconnect (BLVD)
Protection feature	DC load outputs	Two outputs. 2 x 20 A, configured with a 40 A fusible link
	DC overvoltage protection	The overvoltage protection takes effect when the output voltage is higher than the DC overvoltage protection



	threshold.
DC undervoltage protection	The undervoltage protection takes effect when the output voltage is lower than the DC overvoltage protection threshold.
Battery undervoltage protection	The power-off protection takes effect when the battery voltage is lower than the power -off voltage protection threshold.
Dimensions	1U height / 19-inch width 43.6 mm x 482.6 mm x 260 mm (Height x Width x Depth)
Overall weight (including the rectifiers)	Around 8 kg
Installation mode	Embedded in a 19-inch cabinet

