



## 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 the system operates in a temperature higher than 55°C
Storage temperature	Powers off automatically when the system temperature is higher than 75°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 ≤85 V± 5 V The output power of the rectifier is 0%.
	AC input (85 V±5 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± 5 V) The output power of the rectifier is 100%.
	AC input >305 V± 5 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)



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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 <sup>5</sup> h
Design life	10 years to 15 years
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 AC features	<p>Input frequency</p> <p>Rated frequency: 50 Hz/60 Hz Frequency range: 45 Hz to 66Hz</p> <p>Input PF</p> <p>The PF is no lower than 0.996 at the rated load.</p> <p>Total harmonic distortion</p> <p>THD≤5% when the system operates at a power ranging from 30% to 100% of the rated power.</p> <p>AC lightning protection</p> <p>A lightning protection module is embedded in the rectifier.</p>
AC power distribution	<p>Number of AC inputs</p> <p>1</p> <p>AC input circuit breaker</p> <p>3xrimping terminals</p> <p>Stanby AC output</p> <p>–</p>
Protection feature	<p>AC overvoltage protection</p> <p>The overvoltage protection takes effect when the single-phase input voltage is higher than the AC overvoltage protection threshold.</p> <p>AC undervoltage protection</p> <p>The undervoltage protection takes effect when the single-phase input voltage is lower than the AC under voltage protection threshold.</p> <p>Rated DC output voltage</p> <p>-53.5 V DC</p> <p>Range of the DC output voltage</p> <p>Continuously adjustable from -41 V to -58 V (adjust by the CSU)</p>
Output DC properties	<p>Voltage drop in the cabinet</p> <p>≤500 mV</p> <p>Regulated voltage precision</p> <p>≤0.6%</p> <p>Psophometrically weighted noise voltage</p> <p>≤2 mV</p> <p>DC lightning</p> <p>Maximum current of the lightning arrester: I<sub>max</sub> = 3 kA (8/20 µs)</p>
DC power distribution	<p>Battery inputs</p> <p>One input. 1 x 30 A, configured with a 40 A fusible link</p> <p>Power-off protection mode</p> <p>Battery Low Voltage Disconnect (BLVD)</p>
Protection feature	<p>DC load outputs</p> <p>Two outputs. 2 x 20 A, configured with a 40 A fusible link</p> <p>DC overvoltage protection</p> <p>The overvoltage protection takes effect when the output voltage is higher than the DC overvoltage protection</p>



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	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	<b>1U height / 19-inch width</b> 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



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