



Basic parameters

- Output power up to 1000 W
- Input voltage: 18...72 VDC or 180...375 VDC
- Up to 5 outputs
- External diagnostic output
- Operating temperature range up to -60 °C ... +110 °C
- Convection cooling
- Case 250 x 140 x 20 mm

Description

Power supplies block are specially designed for industrial applications and harsh environment operation. This compact unit proven maximum output power up to 1000 W and it is available in versions with up to fifth **galvanically isolated** channels. The units can be switched on/off by a signal, have a full protection complex against over current, short circuit and overheating; they also can be connected in parallel or in series and provide compliance to EMC standard EN55022, class A.

They are designed for a variety of industrial equipments and made of customized element base. They are sealed with heat-conducting potting material and could have wide operating temperature range up to -60°C...+110°C, featuring a thermal protection chip. These power supplies undergo special temperature and burn-in tests with extreme on/off modes.

Modules can be switched on and off by command, are provided with full complex of protections as following: output over-current, short-circuit, over-heat.

Ordering information

JETDB 1000 - 27 – 5K – 012122424

1 2 3 4 5

- 1 - «JETDB» Series
- 2 – Maximum output power, W
- 3 – Input voltages
 - 27 - 27 VDC (18...72 VDC)
 - 300 - 300 VDC (180...375 VDC)
- 4 – Index of output channels quantity
 - 5K – fifth
 - 4K – four
- 5 – Nominal output voltage, VDC
(two sings for a every channel)

Standard models with 4 channels

Name	Input voltage range	Total output power	Output voltage / nominal output current
JETDB1000-27-4K-05122448	18...72 VDC	1000 W	5 VDC (20 A); 12 VDC (16,6 A); 24 VDC (8,3 A); 48 VDC (4,2 A)
JETDB1000-300-4K-05122448	180...375 VDC	1000 W	5 VDC (20 A); 12 VDC (16,6 A); 24 VDC (8,3 A); 48 VDC (4,2 A)

Standard models with 5 channels

Name	Input voltage range	Total output power	Output voltage / nominal output current
JETDB1000-27-5K-0512122424	18...72 B	1000 B _T	5 VDC (20 A); 12 VDC (16,6 A); 12 VDC (16,6 A); 24 VDC (8,3 A); 24 VDC (8,3 A)
JETDB1000-300-5K-0512122424	180...375 B	1000 B _T	5 VDC (20 A); 12 VDC (16,6 A); 12 VDC (16,6 A); 24 VDC (8,3 A); 24 VDC (8,3 A)

Comment: It's possible to produce non-standard output voltages from 5 to 60 VDC.

Technical specifications*

Input parameters	
Input voltage range / transitional deviation, 1 sec 27	=18...72 VDC / =17...80 VDC
Input voltage range / transitional deviation, 1 sec 300	=180...375 VDC / =175...400 VDC
Output parameters	
Instability of output voltage with change of output current from 10 to 100% / no load	± 2 % / ± 5 %
Instability of output voltage with change of input voltage	± 0,5 %
Output voltage ripple (peak-to-peak, 20 MHz)	<2 % U _{out}
Current overload protection and output short circuit protection ²⁾	110 ... 130 % P _{out}
Output overvoltage protection	1,2 ... 1,4 U _{out}
General characteristics	
Efficiency	88...92 %
Temperature of case (operating)	up to -60° C ...+110 °C
Ambient temperature (storage)	-65° C ...+110 °C
Humidity	95 % @35 °C
Insulation strength, input/output	=1500 V
Insulation strength, input/case	=1000 V
Insulation strength, output/case, out/out	=500 V
Isolation resistance input/output, input/case, output/case @ 500 V	>20 MOhm
EMC standards	EN55022, class A
Safety standards	IEC/EN60950
MTBF (T = 30° C; P _{out} = 0,8 • P _{outmax})	100 000 hours
Cooling	Natural convection

*) All specifications are valid for normal climate conditions, at U_{in.nom.}, I_{out.nom.}, unless otherwise stated.

Certificates

CE conformity declaration

Notes

Please mind that information presented in this document is not complete. More extensive information (additional requirements, typical connection schemes, operation rules and etc.) can be provided upon request.

Contact information

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Due to the Company policy and in terms of constant improvement of the products manufactured the right to change content of promotional materials without prior notification.

Special requirements