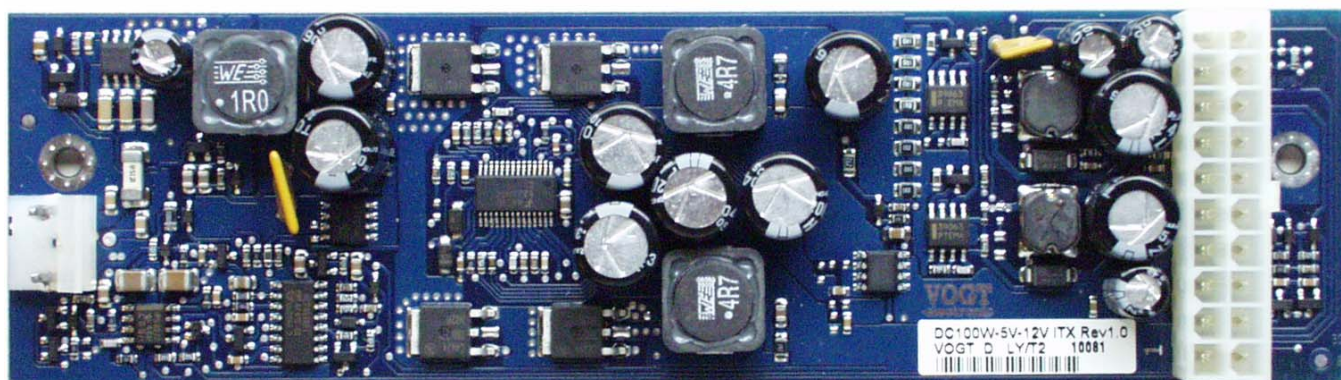


➤ DC-DC Supply, 12V-in 100W



- DC-DC PSU for 886LCD-M series motherboards
- Input voltage DC 12V
- ATX power output
- ATX power cable included
- 100W Max. output power

➤ Ordering information

Part number	Description
820151	DC-DC Supply, 12V-in, ATX, 100W with ATX cable

Input

Input Voltage	DC 12V
Input Voltage Range	DC 11.4V ~ 12.6V
Maximum Input Over-Voltage (without damaging the DC converter)	DC 16V
Current Consumption at 12V	typ. 9.3A
Efficiency (at nominal load)	typ. 90%
Primary Fuse, soldered	fusible cut-out
Under / Over Voltage Lockout	DC Converter switches off
Turn on delay after shutdown (provides a defined RESET for disk drives)	typ. 1.5 sec.
Inverse-Polarity Protection	active protection circuit

Outputs

Output Voltage	Description	Tolerance	Output Current	Maximum Current	Maximum Ripple
U1	+5V SB	+/-5%	0 to 1.5A	2.0A for t < 10ms	100 mVpp
U2	+3.3V	+/-5%	0 to 5A	8.0A for t < 10ms	50 mVpp
U3	+5V	+/-5%	0 to 8.5A	10A for t < 10ms	60 mVpp
U4	+12V	+9/-11%	0 to 2.6A	8.0A for t < 2s	120 mVpp
U5 *)	-12V	+/-10%	0 to 0.2A		120 mVpp
U6 *)	-5V	+/-10%	0 to 0.2A		120 mVpp

Note:

- max. output power: 100W.
- maximum combined power for output U2, U3,U4:90W.
- thermal overload to protection for U1 and U4.
- all outputs are short circuit proof.
- It is customer's responsibility to ensure that the power supply is operated within the limits. Please refer to the [886LCD-M Power Supply Characteristics](#) document available from Kontron Technology

Control Features

Ext. ON/OFF : according to PC ATX standard, PS_ON
 Power ON Delay : < 0.5s
 Power Good : for 3.3V, 5V and 12V

Ambient Conditions

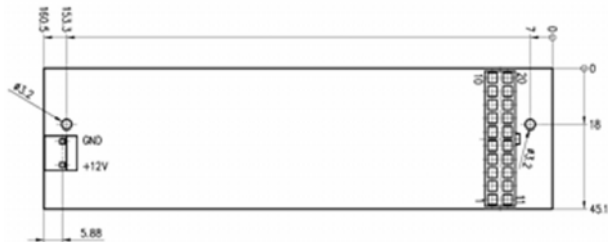
Operating Temperature : 0 ~ 50°C
 Storage Temperature : -20 ~ 70°C

Note:
 Maximum component temperatures, especially with respect to the trip currents of the PTC's should not be exceeded. Therefore proper cooling has to be provided by the end application.

Mechanical Dimensions

Open-Frame PCB dimensions
 (L x W x H):160.5 x 45.1 x 18 mm

Input Connector: Molex 09-65-2029 or equivalent
 Output Connector:Molex 39-28-1203 or equivalent



EMI

Line conducted emissions according to EN55022
 Radiated emissions (measuring distance: 10 m) comply with limit value class "B"
 (Both verified with reference system)

Devices are specified with these indications, but features are not assured.
 Technical changes are reserved. Status: March 2005.

➤ Ordering information

Part number	Description
820151	DC-DC Supply, 12V-in, ATX, 100W with ATX cable

➤ Contact

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+3,3VDC/sense	11	1	+3,3 VDC
-12 VDC	12	2	+3,3 VDC
Ground	13	3	Ground
PS_ON	14	4	+5 VDC
Ground	15	5	Ground
Ground	16	6	+5 VDC
Ground	17	7	Ground
-5 VDC	18	8	Power OK
+5 VDC	19	9	+5 VSB
+5 VDC	20	10	+12 VDC