

DC/DC Converter

Product Specifications

ANZ#: Z064, December 4, 2001

DBC - Series Switch-Mode Power Supply

Total Power	65 Watts
Input Voltages	36 – 72 VDC
Number of Outputs	One

SPECIAL FEATURES

- Wide DC Input Voltage
- Regulated Output
- Built-in EMI filtering
- Input Polarity Free
- Short circuit protection

ELECTRICAL SPECIFICATIONS

Input range	36 – 72 VDC
Frequency	DC
Inrush current	10.0 Amps maximum at any input range
Input current	2.0 Amps maximum at any input range
Efficiency	65% typical at 48 VDC and maximum load
EMI filtering	FCC part 15J class B, CISPR 22 class B
Maximum power	65W
Voltage regulation	±3% @constant voltage mode
Hold up time	10ms minimum at 48 VDC and 80% of rated load
Protection	Output short circuit protection, auto recovery

ENVIRONMENTAL

Operating temperature:	0 to 50 °C
Storage temperature:	-20 to 85 °C
Storage humidity, non-condensed	5% to 95%
Vibration Frequency:	5 to 50 Hz
Acceleration:	± 7.35 M/(S*S)
Direction:	X, Y and Z axis
MTBF:	>100,000 Hours at full load and 25°C ambient conditions

SAFETY

UL/CUL
CB
CE

ORDERING INFORMATION

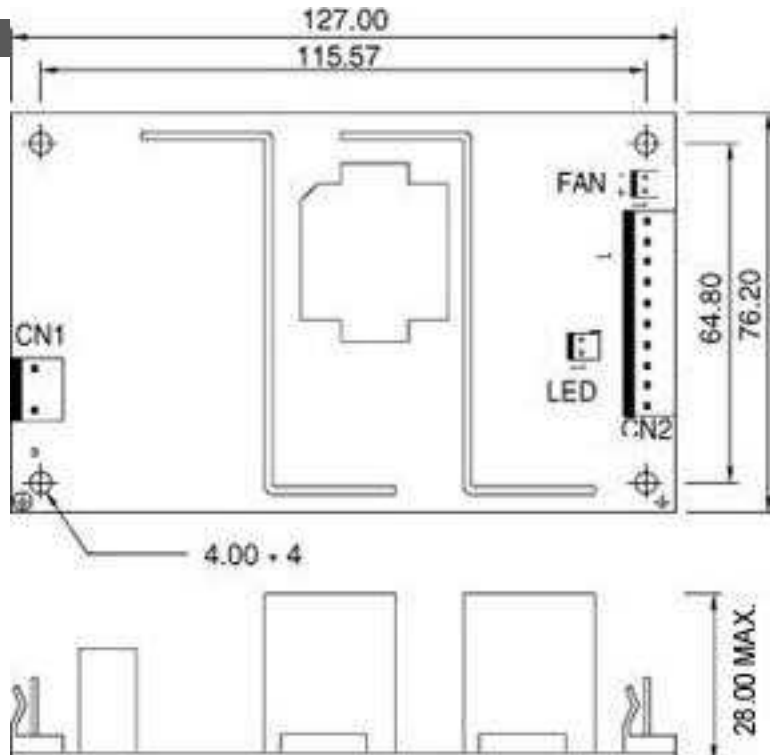
Model	Power max	Vout	Io min	Io max	Ripple P/P	Regulation	Safety
DBC05130-z	65W	+5VDC	1000mA	13.0A	50mV	±3%	UL/cUL/CE
DBC12055-z	65W	+12VDC	1000mA	5.5A	120mV	±3%	UL/cUL/CE
DBC15045-z	65W	+15VDC	400mA	4.5A	150mV	±3%	UL/cUL/CE
DBC25027-z	65W	+24VDC	400mA	2.7A	240mV	±3%	UL/cUL/CE

1. Ripple peak-to-peak with 20MHz bandwidth and a capacitor, 47uF/50V, cross-connected at testing point.
2. DBCxxxx-z; Z = Blank or C; Blank = PCB only; C = Case with input connector

MECHANICAL DRAWINGS

DC Input: Molex 09-65-2038 or equivalent
CN1-1 VDC
CN1-2 VDC

DC Outputs: Molex 09-65-2108 or equivalent
CN2-1 V1
CN2-2 V1
CN2-3 V1
CN2-4 V1
CN2-5 V1
CN2-6 RTN
CN2-7 RTN
CN2-8 RTN
CN2-9 RTN
CN2-10 RTN



1. Specification subject to change without notice.
2. All dimensions are in mm.
3. Weight: 0.616 lb/ 0.28 kg (not include enclosure)

