



C.M. TECHNOLOGY

Designed and Manufactured in Australia

www.cmtechnology.com.au

PRODUCT SHORTFORM

Rev. A2

Tel: +61 (2) 9764 5655

Communications Grade DC-DC Converter



DDC Series

The DDC Series is a range of advanced DC to DC Converters.

Available in many DC voltage Output configurations.

- 19" Rack-mounted 2RU form factor
- Wide V_{DC} Input Range
- Separate Circuit Breaker Isolation for Converter & Battery
- Real-time Voltage & Current display for Converter & Battery
- Various Terminal Options



Available Output Configurations

19 - 72 V_{DC} INPUT RANGE

DDC412 12 V @ 60 A Output

DDC424 24 V @ 40 A Output

DDC448 48 V @ 21 A Output

72 - 144 V_{DC} INPUT RANGE

DDC912 12V @ 60 A Output

DDC924 24V @ 40 A Output

DDC948 48V @ 21 A Output

Other output configurations available upon request

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Specifications for DDC448 type:

Output DC Voltage	48V
Output Rated Current	21A
Current Range	0-21A
Ripple & Noise (Maximum)	150mV peak-to-peak
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±0.5%
Setup, Rise Time	500ms, 50ms at full load
Efficiency (Typical)	90%
EMC Immunity	EN61000-4-2,3,4, 5, 6,8, 11, Light industrial, Criteria A
EMI Emission	EN55022 (CISPR22)
Isolation Resistance	Input-Output, Input-Ground, Output-Ground: 100 MΩ / 500V DC / 25°C / 70% Room Humidity
Withstand Voltage	Input-Output: 2KV _{AC} , Input-Ground: 1.5KV _{AC} , Output-Ground: 0.5KV _{AC}
Safety Standards	Compliant with Low Voltage Directive (LVD) 2006/95/EC
MTBF	32K hrs min. MIL-HDBK-217F (25°C)
Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axis
Working Temperature	-20°C to +60°C
Working Humidity	20% to 90% Room Humidity Non-condensing
Storage Temperature & Humidity	-40°C to +85°C, 10% ~ 95% Room Humidity




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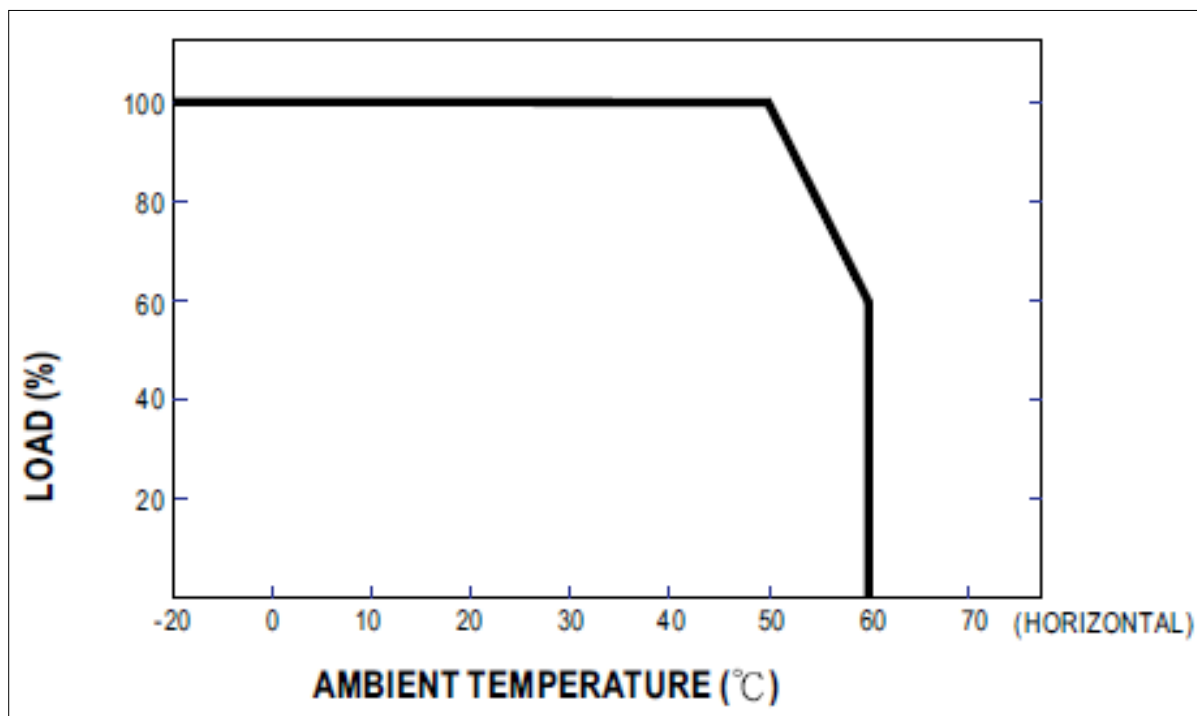
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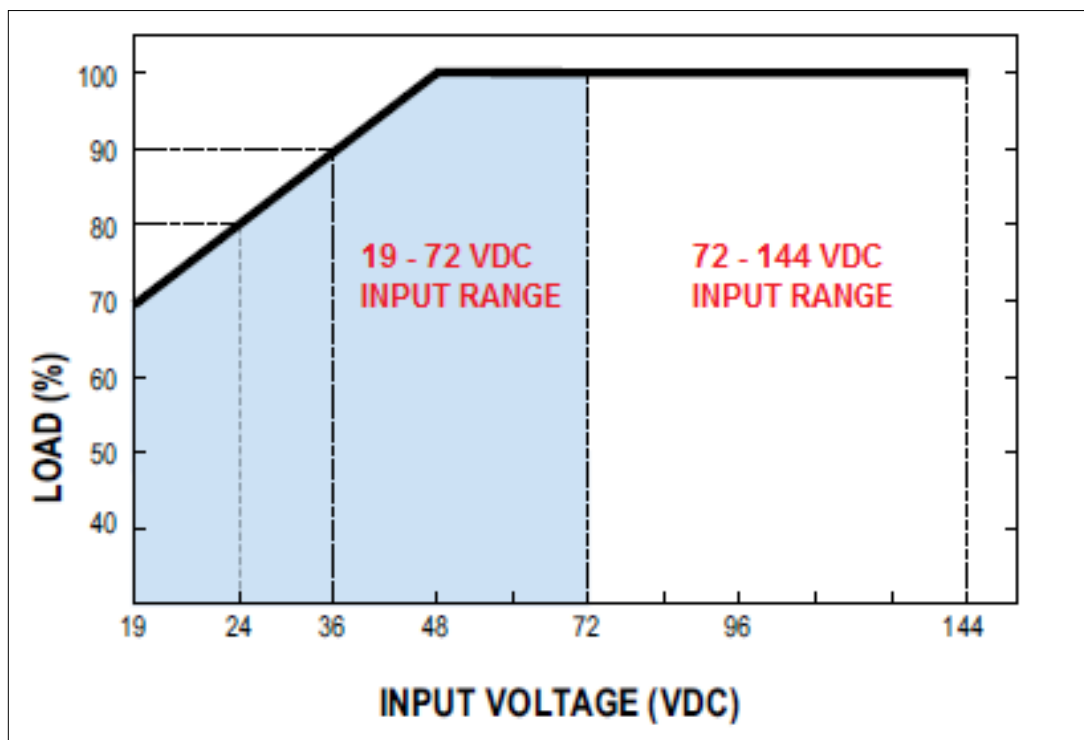
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Derating Curve:



Static Characteristics:




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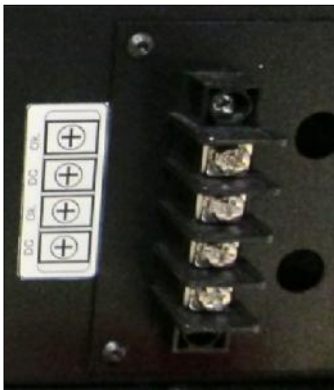
Overview:

The DDC series is a professional range of communications grade DC-DC Converters manufactured in Australia and housed in a powder coated 2RU rack enclosure.

These managers come standard with 8mm Stainless bolts on the rear for Converter and Battery termination. This allows for larger cables to be terminated to the supply, in case the battery stack is a distance from the PSU.

Optional Terminations Include:

1. 8mm Stainless Steel Bolts (Standard)
2. Terminal connection



The DC-DC Converter is cooled by convection and is assisted by an internal variable speed DC fan. High quality magnetic DC circuit breakers protect the converter and battery circuits, and voltage and current metering is provided by LCD panel meters mounted on the front fascia panel.

DC input is provided by a rear panel of 2x8mm Stainless Steel studs with an integral illuminated ON/OFF switch and DC input circuit breaker is mounted on the front panel. DC output is provided via another panel of 2x8mm Stainless Steel studs mounted on the rear panel.

The finished DC-DC converters are all burnt in at full load to provoke any infant mortality failures, with some products held on long term burn-in. The DDC Series is compliant with the Australian C-Tick Standard.

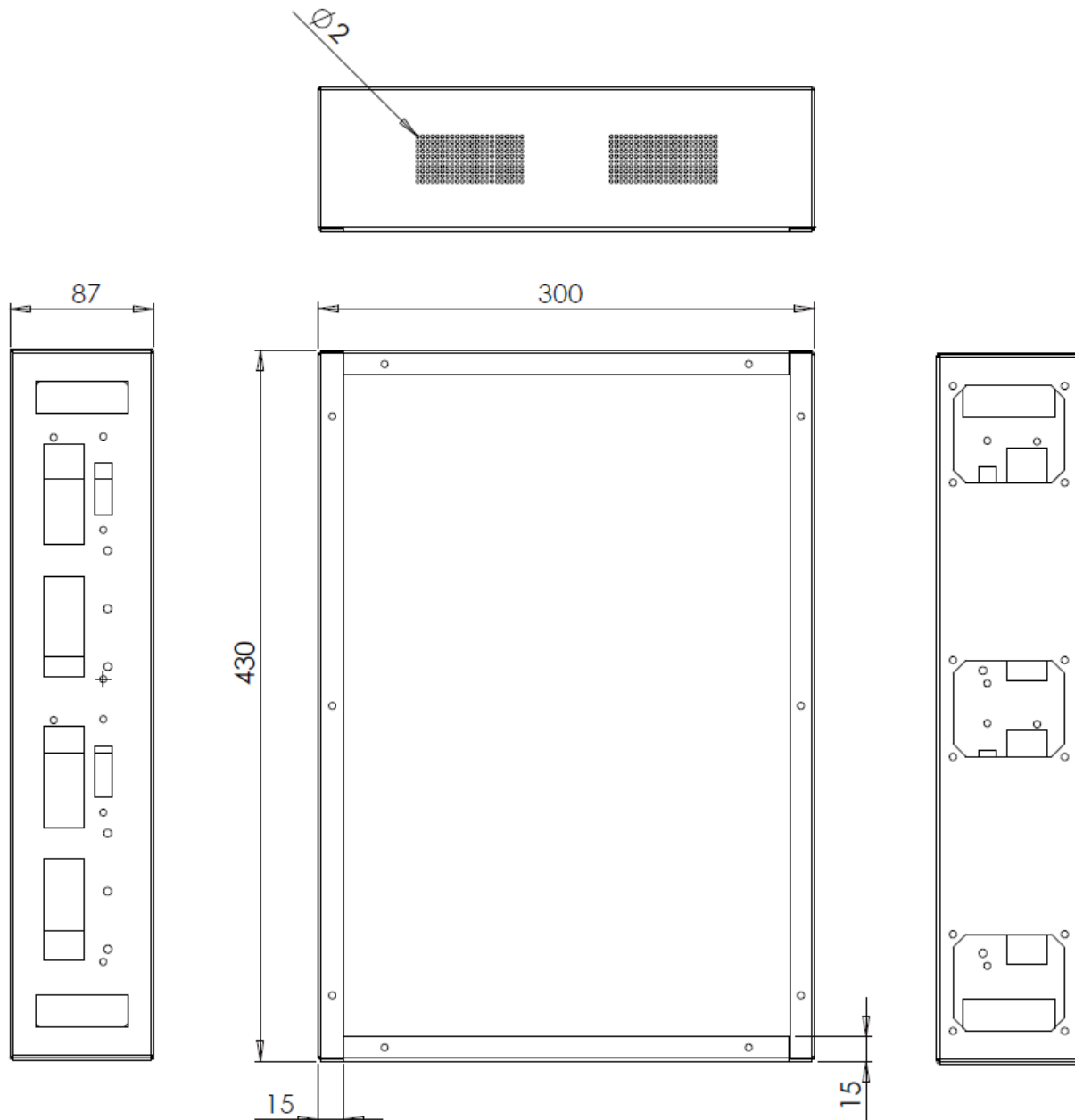


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