



PDS Design Solutions Limited

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HC170 Railway DC - DC CONVERTERS. Designed in accordance with EN50155

MODEL	INPUT	OUTPUT	CURRENT	MODEL	INPUT	OUTPUT	CURRENT
HC170001	24V	12V	10A (cont)	HC170013	110V	12V	10A (cont, 14A PK)
HC170002	24V	24V	7A	HC170014	110V	24V	7A
HC170003	24V	36V	4.5A	HC170015	110V	36V	4.5A
HC170004	24V	48V	3.5A	HC170016	110V	48V	3.5A
HC170005	24V	72V	2.35A	HC170017	110V	72V	2.35A
HC170006	24V	110V	1.5A	HC170018	110V	110V	1.5A
HC170007	48V	12V	10A (cont)	Please consult sales for any other Input / Output VDC.			
HC170008	48V	24V	7A				
HC170009	48V	36V	4.5A				
HC170010	48V	48V	3.5A				
HC170011	48V	72V	2.35A				
HC170012	48V	110V	1.5A				

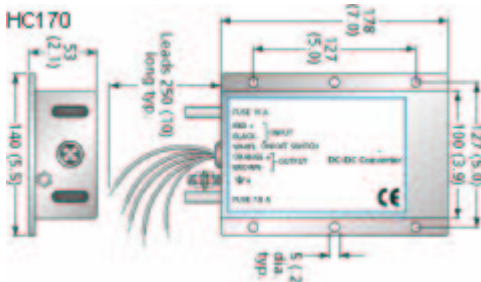
- ISOLATED INPUT TO OUTPUT & CHASSIS.
- HIGH OUTPUT POWER IN COMPACT SIZE.
- WIDE INPUT RANGE.
- CONTINUOUS CURRENT RATINGS.
- EPOXY FILLED ALUMINUM CASE.
- EXTREMELY RUGGED.
- HIGH TOLERANCE FOR SHOCK & VIBRATION
- DESIGNED TO MEET EN50155 (replacing previous RIA standards).



GENERAL DESCRIPTION. A small converter, generating a range of standard voltages, capable of powering most battery equipment when supplied from a DC source / batteries. The input and output are ohmically isolated, making installation very simple.

The specification allows for up to 170 watts of continuous power to be used.

The unit is packaged in a powder coated folded metal box. Input wires enter on one side face. Flanges are provided for mounting at each end.



For illustration purposes only.

INSTALLATION.

FIXING: - Fixing Holes are available on the mounting flanges, symmetrically placed.

SPECIFICATION.

INPUT VOLTAGE:

24VDC (19-50V), 48VDC (32-72V), 110VDC (70-140V)

WARNING: Input must be fused at source.

OUTPUT V REGULATION: - <5%

OUTPUT NOISE:- <100mV pk-pk

Efficiency:- >80%

All models designed in accordance with EN50155 & the 110VDC also meets RIA12 385V, 20mS surge – not covered by EN50155.

GENERAL

Protection: Input – Reverse Polarity. Peak Input current limiting allowing approx 110% load – an output fuse must be fitted.

Output Electronic over-voltage trip, switch off to reset

Size: 178mm x 140mm x 53mm.

Weight: 1.9KG

Operating Temp Range: -25 to +55

CAUTION: This converter is supplied on the basis of the user determining the suitability for the purpose for which it is to be used. Do not use for life dependent applications. Do not reverse battery polarity.