

DCDCAC3000 – CONVERTER

Power Converter was designed to drive on-board socket outlets and kitchen equipments unit of the IC2 double deck coach for the Finnish railways.



Power Converter located inside the coach

TECHNICAL DATA

Input Characteristics:

Nominal input voltage
1-phase 110 Vdc / 34 Arms

Output Characteristics:

- ∞ Output voltage $U_{AN} = 230 V_{rms}$
- ∞ Output frequency $f_N = 0..50 Hz$
- ∞ Output current $I_{AN} = 13 Arms$
- ∞ Output power 3000 VA
- ∞ Overload capability

Protections

- over current protection
- over voltage protection
- under voltage protection
- earth-fault protection
- output phase supervision
- short-circuit protection
- over and under temperature protection

Applications:

- ∞ UPS supply for 230V socket outlets
- ∞ Kitchen equipments



Mechanical Data

Input		General	
Nominal input voltage	110 Vdc	Efficiency	> 90 %
Operating range	77-138 Vdc	Temperature range	-40...60°C
Output		Humidity	Less than 95%
Voltage	230Vrms (± 3%)	Cooling	Forced (external)
Nominal power	3000 VA	Dimensions in mm	480 x 500 x 130
		Weight	25 kg
		Mounting	Inside the coach
		Housing	IP 20

Complying standards

Electrical particles	EN 61287-1, Railway applications – Electronic power converters for rolling stock
Vibration shock etc.	EN 61373, Railway applications – Shock and vibration tests
EMC	EN 50121-3-2, EMC on board rolling stock

Block diagram

