



30A BATTERY EQUALIZER 24V/12V

Non-isolated DC/DC battery equalizer for 24V dual battery systems (12V+12V).

The battery equalizer is balancing the two 12V batteries to the same voltage. If a load is connected to only one 12V battery the equalizer provides the required current to keep the battery voltages balanced.

This enables to operate 12V consumers directly from a dual 24V battery system.

The use of highest quality components results in high MTBF and outstanding reliability.

The unit is manufactured at our plant under strict quality control.

APPLICATIONS

- Military applications
- Marine & other demanding environments
- All mobile MIL applications as tanks and trucks
- Shelters and other building equipment

FEATURES

- 225W output power
- MIL STD 461F
- MIL STD 810G
- MIL STD 1275D
- Ruggedized
- Waterproof IP65
- Environmentally tolerant
- Vibration resistant
- Operating temperature -40 to +85°C
- Full electronic protection
- Compact size, light weight
- Field-proven design topology



Convection cooling (no fan)



Extended temperature range



High frequency technology



Light weight, compact size



Full electronic protection



Waterproof IP65

SPECIFICATIONS

Input Voltage	24 VDC (18-30 VDC)
MIL-STD-1275D	Ripple according 5.3.1.a Spikes according 5.3.1.b Ripple according 5.1.3.2 Spikes according 5.1.3.4
Maximum Input Current	16 A
Input current with no load	< 30mA
Input Protection	Against against reverse polarity Against under voltage
Isolation	Input/Earth 500 VDC, Output/Earth 500 VDC
EMC Emissions	
Radiated quasi peak	CISPR 12
Radiated average	CISPR 12
Radiated	VG95370
Radiated	MIL-STD-461F
EMC Immunity	
General	72/245/EEC:2013-04
Transients	EN61100-4-2-2009
Radiated	MIL-STD-461F
Output Voltage	$V_{in}/2$
Voltage tolerance	< 1 ±%
Maximum continuous current	30 A
Line Regulation	0.2 %
Load Regulation	1 %
Ripple	50 mVpp
Ripple + noise (BW 20MHz)	100 mVpp
Maximum continuous powerr	225 W

Output Protection	Against overload and shortcircuit
Over-temperature protection	shutdown (acts when internal temperature is above 95°C)
Efficiency	95 %
Storage Temperature	-50...85 °C
Operating Temperature	-40...85 °C
Derating Po/temperature	-2.5 % /°C from 65 to 85 °C
Cooling	Natural convection
Relative humidity	5...95 %
Operating altitude	2000 m
Shock	Up to 6g, MIL-STD-810G, Methode 516.6 Procedure I and II
Vibration	Up to 3g sinusoidal, MIL-STD-810G, Methode 514.6 Category 20,10Hz to 500Hz
Protection	IP 65
Indicators	Status led
Control	None
Package / Dimensions	168 x 130 x 34 mm (depending on connectors required)
Weight	1.4 kg
Connections	Deutsch DTP04-4P, cable length total 150mm
RoHS Compliance	According to directive 2011/65/EU
Warranty	1 year

