



MDC-1228 is an automotive Power Supply that supplies 28VDC power for military transceivers and power amplifiers when used in a 12VDC commercial vehicle. It eliminates the need to convert the electrical system in the commercial vehicles when there is a need to employ military type transceivers and amplifiers.

It is operating from a commercial vehicle 12VDC battery or 12VDC power source.

MDC-1228 is small in size, low weight, high performance and high reliability system. It is water proof and it complies with all the applicable military standards to operate in harsh and rugged environment.



- 12V DC Input
- 28V DC output
- 30A maximum current
- 840W maximum power
- Less than 100mV output ripple
- Less than 1Sec Voltage rise time
- Operates from 12V commercial vehicle power
- ON/OFF switch
- ON operation with or without LEDs
- No minimum load required
- Small Size
- Light Weight
- High Performance
- High Reliability

MDC-1228

MOBILE DC/DC CONVERTER



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Input characteristics

Nominal input voltage:
10.5-18VDC
Reverse Voltage Protection

Output characteristics

Output voltage: 28volt nominal
Output power: 840W
Max output current: 30 Amp
Output voltage Rise time:
less then 1000 msec.
No minimum load is required
Low output ripple <100mVpp

Control

On/Off Switch
The switch has 3 stages:
1 - Off - not working
2 - On - working with indication Leds
3 - On - working with no indication Leds

Interface

DC IN: MW20M(M)A00
DC OUT: MW20F(M)A00
Custom connectors available upon request

Indications

Fault Indication: Red Led
ON Indication: Green Led

Safety

Over-Voltage Protection
Over-Current Protection
Over-Temperature Protection 100°C

Water proof

Submersible to 3 feet

Dimensions and Weight

Overall dimensions (WxHxD):
200 x 100 x 250mm
7.78" x 3.93" x 9.8"
Power Supply weight:
less then 6Kg / 13.4Lb

Operating temperature

-40°C to +85°C

Standards

ISO7637-2
MIL-STD461
MIL-STD1275A
MIL-STD-810E

P1 Connector (DC IN – MW20M(M)A00)

Pin Number	Function	Electrical Characteristic
A	GND	0V
B	BATTERY IN	12V
C	BATTERY IN	12V
D	GND	0V

P2 Connector (DC OUT- MW20F(M)A00)

Pin Number	Function	Electrical Characteristic
A	GND	0V
B	PS OUT	28V
C		
D		

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