

# MLT-DC-1508 & MLT-DC-2420 DC/DC Switching Power Supply

MILTECH  
HELLAS S.A.



**MLT-DC-2420**  
**24Vdc/20Amp**



**MLT-DC-1508**  
**15Vdc/8Amp**

  
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# MLT-DC-1508 & MLT-DC-2420 DC/DC Switching Power Supply

## DESCRIPTION

- The MLT switching power converter family is intended to supply RF amplifiers. Both the MLT-DC-1508 and the MLT-DC-2420 devices operate from unregulated vehicle battery power. They provide a fixed output at 15 Volt or 24 Volt respectively, stabilized against input, load and temperature variations.
- The case of both devices is made from aluminum casting, shield to withstand harsh environmental conditions. The devices can endure rain, humidity, salt, fog, sand, dust vibration and shock requirements. The design of the case permits easy mounting on a flat surface with four screws. The curved lines of the cases do not facilitate accumulation of radioactive or contaminated materials.
- The operation is easy and can be performed even by personnel wearing gloves. A single led indicates the status of the power supply. The access to the interior is easy. Inside there are clearly marked subsystems in order to facilitate identification and repair procedures.
- With the MLT-DC-2420, a power supply cable for the output is supplied.

## TECHNICAL CHARACTERISTICS

	<b>MLT-DC-1508</b>	<b>MLT-DC-2420</b>
Input voltage range:	10 - 33 V <sub>DC</sub>	12.7 - 18 V <sub>DC</sub>
Output voltage:	15 V <sub>DC</sub> ± 5%	24 V <sub>DC</sub> ± 5%
Nominal output current:	8 Amp	20 Amp
Efficiency factor:	> 83%	> 80%
Input protection:	allowed 60 Volt /100 ms spike	allowed 45 Volt/100 ms spike
Overvoltage protection:	< 16.5 Volt without auto-restart	< 28 Volt without auto-restart
Overcurrent protection:	< 9 Amp with auto-restart	< 23 Amp with auto-restart
Operating temperature:	-25°C to +65°C	-25°C to +65°C
Storage temperature:	-25°C to +65°C	-25°C to +65°C
Case dimensions (LXDXH):	221 x 178 x 95 mm	325 x 308 x 95 mm
Case color:	Green NATO, RAL 2003	Black NF 3606
Supply cable:	-	CRE-222 (≈ 3 meters long)
Input connector:	851-07A14-5P50	2 binding posts
Output connector:	851-07A10-6S50	2 binding posts
Weight:	≈ 3.5 kg	≈ 7.5 kg

## ENVIRONMENTAL SPECIFICATIONS

Rain:	per MIL-STD-810E: Method 506.1, Procedure I
Sand & dust:	Method 510.1, Procedure I
Humidity:	0-99% non condensing
Salt & fog:	Method 509.1, Procedure I (24h salt fog, 48h norm)
Vibrations:	Method 514.2, (Profile: 5.5 - 17 Hz @ 1.5g 17 - 20 Hz @ 2.54mm, 20 - 300 Hz @ 2g)
Shock:	30g / 11ms
EMI / EMC:	per MIL-STD-461D



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