

ADM240XX Constant Current Generator

- Amelec standard 2 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

INPUT

Any Potentiometer can be specified in the range of:
1K ohms to 10K ohms.
(Input excitation 1.2V dc @ 2mA max)

OUTPUT 1

Output set by remote input potentiometer in the range of 0 to 4A with up to 10V drive.

OUTPUT 2

0 – 200mV DC signal representing 0 – 4A output current.

OUTPUT 3

Normally open contacts, closing on Fault / Cut out condition. Can be used monitor alarm remotely.
Relay contacts SPST 2A / 125Vac

SUPPLY

Control supply: 12Vdc +/- 10% @ 300mA min
Output supply: 12Vdc @ 4A min

INDICATOR

Power ON: LED, Amber.
TRIP 1: Red LED to show Overheat / Cut-out
TRIP 2: Green LED to show Cooling fan ON.

PERFORMANCE

Temp co-efficient: 200ppm
Linearity: < ±0.1%
Response time: Typically < 400mS
Accuracy: < ±0.1%
Supply regulation: ± 10%
Supply consumption: <3VA

PROTECTION

FRONT - FS1 (Fuse 20 x 5mm 0.25A / F) O/P1 +
MIDDLE - FS2 (Fuse 20 x 5mm 0.25A / F) O/P1 -
BACK - FS3 (Fuse 20 x 5mm 6A / T) SUPPLY 2
INTERNAL - FS4 (Fuse 20 x 5mm 0.5A / T) SUPPLY 1
Trip 1 Fault / Output cut-out @ 70C, re-set 40 C.
Trip 2 Over heat cooling fan ON @ 50 C, off 40 C.
Isolation 500V DC: (IP + OP)/Supply/Earth
Continuous Input short circuit protection.

TERMINATION

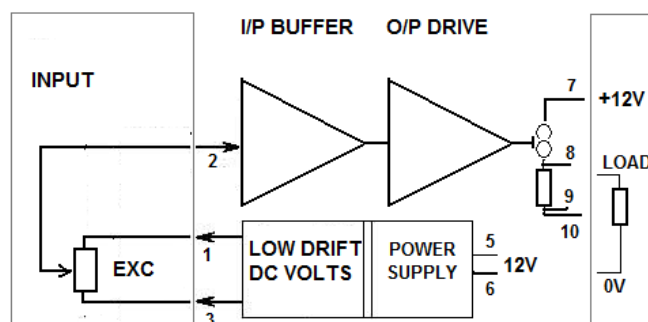
	1
	2
	3
Earth	4
Supply 1 +	5
Supply 1 -	6
Supply 2 12V/6A +	7
O/P1 (0 - 0.2V) +	8
O/P1 (0 - 0.2V) -	9
O/P2 (0-4A) +	10
O/P3 - N/O	11
O/P3 - COM	12
Cooling Fan +	13
Cooling Fan +	14

FRONT VIEW



WIRING: 45 deg, screw terminal, 12 – 26 AWG / 250VDC / 16A

FUNCTION BLOCK DIAGRAM

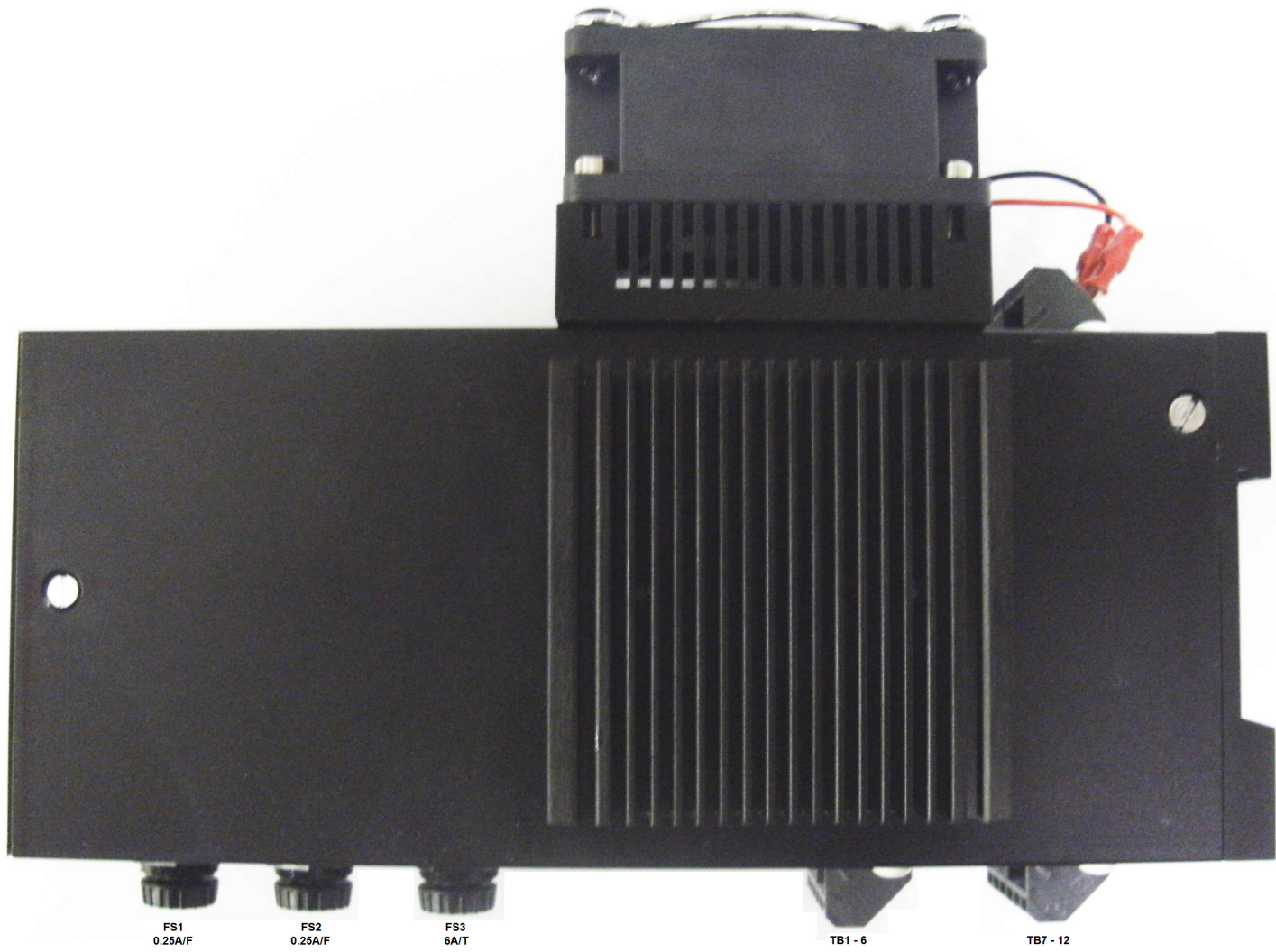


ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 83w x 132h x 182d
Mounting: 35mm Din rail (optional Surface /Panel Mount)
Weight < 500g



FS1
0.25A/F

FS2
0.25A/F

FS3
6A/T

TB1 - 6

TB7 - 12