

AVO200 Series

200 Watt 1/8th Brick DC/DC Converter

Data Sheet

Total Power: 200 W
(12 V @ 16.7 A)
(5 V @ 40 A)
Input voltage: 36 - 75 Vdc
Single output: 12 V, 5 V

SPECIAL FEATURES

- 200 W continuous power
- Ultra high efficiency up to 94.5%
- Telecom DC input range
- Base-plate optimised for contact cooling
- Open frame optimised for air-cooling
- Low ripple and noise
- Fixed switching frequency
- High capacitive load capability
- Pre-bias start-up capability
- Through hole and surface mount termination option
- High reliability
- RoHS-6 compliant
- UL94 V-0 materials

SAFETY

- EN62368
- CSA
- CE

WARRANTY

- 2 Years (Consult factory for extended Terms)



Electrical Specifications

Input	
Input voltage	36 - 75 Vdc
Input Surge	100 V / 100 mSec
Efficiency	12 V at 100% load is 94% 5 V at 100% load is 94.5%
I/O insulation I/O isolation	Basic insulation 2250 Vdc
Output	
Output Voltage	12 V nominal 5 V nominal
Output current maximum	16.7 A for 12 V version 40 A for 5 V version
Noise & ripple	12 V is 70 mV pk-pk max 5 V is 120 mV pk-pk max
Over Temperature protection -Baseplate -Open frame	110 °C baseplate 120 °C hot-spot
Over voltage protection Method / OVP operation	Auto restart /130% Vout
Over current protection Method / OCP operation	Hiccup / 150% Iout
Control	
Enable	TTL compatible (negative logic)
Trim function	80% to 110% Vout
Remote sense	Sense connections provided
Switching Frequency	150 KHz

Ordering Information

Model number	Input voltage	Output voltage set point	Output current	Efficiency
AVO200-48S05B-6L	36-75 Vdc	5 V / 40 A	40 A	94.5%
AVO200-48S05-6L	36-75 Vdc	5 V / 40 A	40 A	94.5%
AVO200-48S05PB-6L	36-75 Vdc	5 V / 40 A	40 A	94.5%
AVO200-48S12B-4L	36-75 Vdc	12 V / 17 A	16.7 A	94.0%
AVO200-48S12B-6L	36-75 Vdc	12 V / 17 A	16.7 A	94.0%
AVO200-48S12-6L	36-75 Vdc	12 V / 17 A	16.7 A	94.0%

Default = Negative remote control

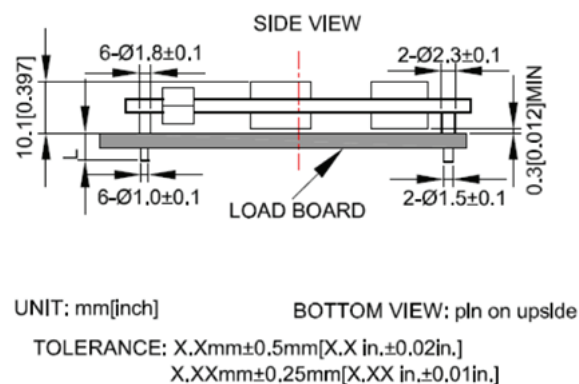
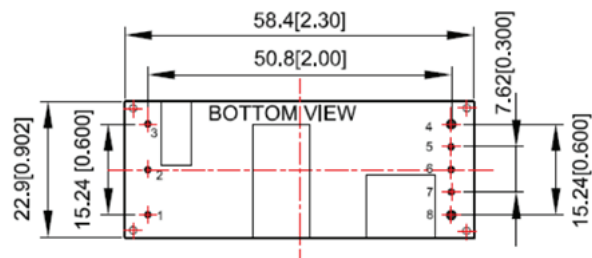
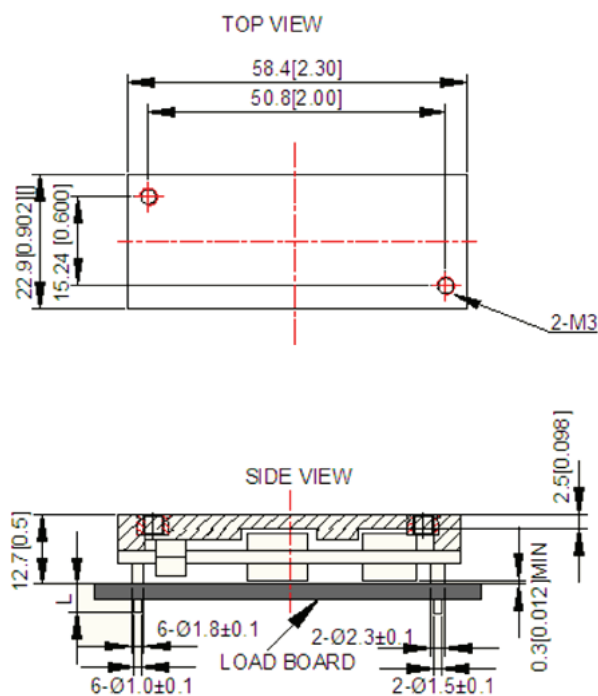
P = Positive remote control

B = Baseplate

-6 = 3.8 mm pin length

-4 = 4.8 mm pin length

Mechanical Drawings



Notes:

- Dimensions within the box are critical dimensions.
- AVO200 5 V and 12 V products have slight difference in the mechanical drawing. Please check the specified product's Technical Reference Note for more details.
- All specifications are subject to change without notice. Mechanical drawings are for reference only.

Pin Length Options

Device code suffix	Pin Length
-4	4.8 mm ± 0.25 mm
-6	3.8 mm ± 0.25 mm
-8	2.8 mm ± 0.25 mm
None	5.8 mm ± 0.25 mm

Pin Designations (AVO200)

Pin No.	Name	Function
1	V _{in} +	Positive input voltage
2	Remote ON/OFF	Remote control
3	V _{in} -	Negative input voltage
4	V _o -	Negative output voltage
5	S-	Negative remote sense
6	Trim	Output voltage trim
7	S+	Positive remote sense
8	V _o +	Positive output voltage

Environmental Specifications

Operating temperature	-40 to +85 °C
Storage temperature	-55 to +125 °C
MTBF	1.5 million hours

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