AM10E-C Series



10 watt dc-dc converters

• POWER MODULES FOR PCB MOUNTING

• 2:1 WIDE INPUT RANGE

REGULATED OUTPUT

- LOW RIPPLE & NOISE
 - REMOTE ON/OFF CONTROL (OPTIONAL)

GENERAL DESCRIPTION

Our AM10E-C series is a family of cost effective 10W single output DC-DC converters. These converters are shielded on all six sides and encapsulated with a nickel-coated copper with a non-conductive base and dimensions of 50.8x25.4x10.5mm. The high performance features of our AM10E-C components include short circuit protection with current limit auto recovery, tight line regulation and a high efficiency operation coefficient up to 83%. Fifteen models operate from an input voltage range of 12, 24 & 48VDC producing output voltages of 3,3, 5, 12, 15 & 24VDC. The normal operation is specified over the full operating temperature range of -25°C to +71°C with no derating required. Cooling is done by free air convection.

ELECTRICAL SPECIFICATIONS

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

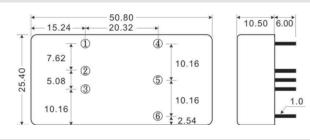
Input Specifications:		Output Specifications:	
Voltage range	12VDC, 9~18VDC 24VDC, 18~36VDC 48 VDC, 36~75VDC	Voltage accuracy Ripple Noise	±2%, max. <0.2% Vout +20mVmax (Vp-p) <0.5% Vout +50mVmax (Vp-p)
Filter	p (Pi) Network	Short circuit protection	Current limit, auto-recovery
Isolation Specifications: Rated voltage Resistance Capacitance General Specifications: Efficiency Switching frequency	1500VDC >1000 Mohms 1000pF 78% to 83% 300KHz, typ. 100% load	Over current protection Over voltage protection Line regulation (HL-LL) Load regulation (10-100% Temperature coefficient Physical Specifications:	b)±1%, typ. ±0.02%/°C, typ.
Environmental Specifications:		Dimensions	50.8x25.4x10.5mm,
Operating temperature Storage temperature Case temperature Humidity (non-condensing) Cooling	-25°C+71°C -55°C+105°C +95°C, max. Up to 95% Free-air convection	Weight Case material	2.0x1.0x0.413inches 32g Nickel-Coated Copper with Non-Conductive base, six sides' shielded

MTBF: > 800,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C) Specifications are subject to change without notification

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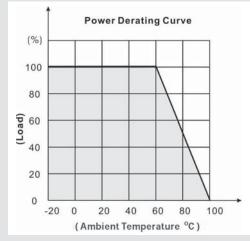
OUTLINE DIMENSIONS & PIN CONNECTIONS

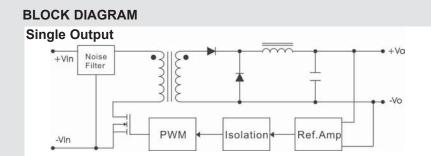
MECHANICAL DIMENSION (Top View)



Pin	Single		
1	On/Off Control (Optional)		
2	-V Input		
3	+V Input		
4	-V Output		
5	No pin		
6	+V Output		

DERATING





MODELS Single output

Models	Input Voltage	Ouput Voltage	Ouput Current max.
AM10E-1203SC	9VDC-18VDC	3.3VDC	2000mA
AM10E-1205SC		5VDC	2000mA
AM10E-1212SC		12VDC	830mA
AM10E-1215SC		15VDC	670mA
AM10E-1224SC		24VDC	420mA
AM10E-2403SC	18VDC-36VDC	3.3VDC	2000mA
AM10E-2405SC		5VDC	2000mA
AM10E-2412SC		12VDC	830mA
AM10E-2415SC		15VDC	670mA
AM10E-2424SC		24VDC	420mA
AM10E-4803SC	36VDC-75VDC	3.3VDC	2000mA
AM10E-4805SC		5VDC	2000mA
AM10E-4812SC		12VDC	830mA
AM10E-4815SC		15VDC	670mA
AM10E-4824SC		24VDC	420mA