AM15EW-C Series



15 watt dc-dc converters

- POWER MODULES FOR PCB MOUNTING
- 4:1 WIDE INPUT RANGE
- REGULATED OUTPUT

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



GENERAL DESCRIPTION

Our AM15EW-C series is a family of cost effective 15W 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 AM15EW-C components include short circuit protection with current limit auto recovery, tight line regulation and a high efficiency operation coefficient up to 83%. These wide range devices operate over 4:1 input voltage

range, providing a continuously stable output voltage. Ten models operate from an input voltage range of 24 & 48VDCproducing 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	24VDC, 9~36VDC	Voltage accuracy	±2%, max.
	48 VDC, 18~75VDC	Ripple	<0.2% Vout +20mVmax (Vp-p)
Filter	p (Pi) Network	Noise	<0.5% Vout +50mVmax (Vp-p)
Indiation Specifications		Short circuit protection	Current limit, auto-recovery
Isolation Specifications: Rated voltage Resistance	1500VDC >1000 Mohms	Over current protection	Works over 120% of rating and recovers automatically
Capacitance	1000 Weiling	Over voltage protection	Zener diode clamp protection
Сарастанес	тооорг	Line regulation (HL-LL)	
General Specifications:		Load regulation (10-100%) $\pm 1\%$, typ.	
Efficiency	79% to 83%	Temperature coefficient	$\pm 0.02\%$ /°C, typ.
Switching frequency	300KHz, typ. 100% load	Physical Specifications:	
Environmental Specifications:		Dimensions	50.8x25.4x10.5mm
Operating temperature	-25°C+71°C		2.0x1.0x0.413inches
Storage temperature	-55°C+105°C	Weight	32g
Case temperature	+95°C, max.	Case material	Nickel-Coated Copper with
Humidity (non-condensing)	Up to 95%		Non-Conductive base,

Free-air convection

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

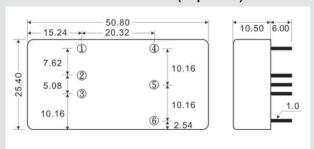
0.02%/°C, typ. 0.8x25.4x10.5mm .0x1.0x0.413inches Vickel-Coated Copper with Non-Conductive base, six sides' shielded

Cooling

AM15EW-C Series

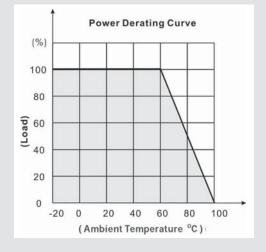
OUTLINE DIMENSIONS & PIN CONNECTIONS

MECHANICAL DIMENSION (Top View)

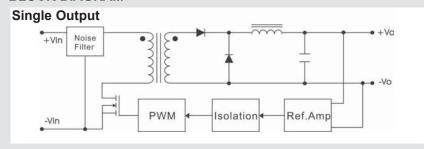


Pin	Single		
1	On/Off Control (Optional)		
2	-V Input		
3	+V Input		
4	-V Output		
5	No pin		
6	+V Output		

DERATING



BLOCK DIAGRAM



MODELS Single output

Models	Input Voltage	Ouput Voltage	Ouput Current max.
AM15EW-2403SC	9VDC-36VDC	3.3VDC	3000mA
AM15EW-2405SC		5VDC	3000mA
AM15EW-2412SC		12VDC	1250mA
AM15EW-2415SC		15VDC	1000mA
AM15EW-2424SC		24VDC	625mA
AM15EW-4803SC	18VDC-75VDC	3.3VDC	3000mA
AM15EW-4805SC		5VDC	3000mA
AM15EW-4812SC		12VDC	1250mA
AM15EW-4815SC		15VDC	1000mA
AM15EW-4824SC		24VDC	625mA