



## 15 watt dc-dc converters

- Power Modules for PCB Mounting
- 2:1 and 4:1 Input Ranges
- Regulated Output
- Low Ripple and Noise
- Remote ON/OFF Control (Optional)
- 2-Year Product Warranty

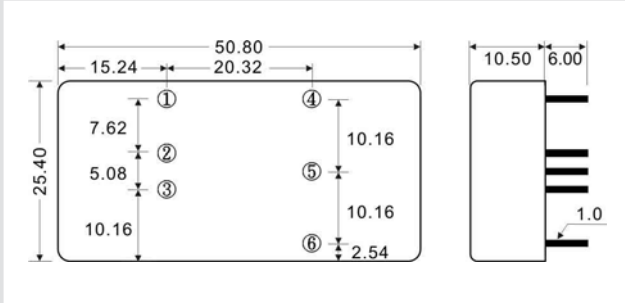
### ELECTRICAL SPECIFICATIONS

Outputs	Input voltage (VDC)					Output voltage	Output current max.
	9...18V	18...36V	36...75V	9...36V	18...75V		
Single output	AM15E-1203SC	AM15E-2403SC	AM15E-4803SC	AM15EW-2403SC	AM15EW-4803SC	3.3VDC	3000mA
	AM15E-1205SC	AM15E-2405SC	AM15E-4805SC	AM15EW-2405SC	AM15EW-4805SC	5VDC	3000mA
	AM15E-1212SC	AM15E-2412SC	AM15E-4812SC	AM15EW-2412SC	AM15EW-4812SC	12VDC	1250mA
	AM15E-1215SC	AM15E-2415SC	AM15E-4815SC	AM15EW-2415SC	AM15EW-4815SC	15VDC	1000mA
	AM15E-1224SC	AM15E-2424SC	AM15E-4824SC	AM15EW-2424SC	AM15EW-4824SC	24VDC	625mA

Input	Input filter	$\pi$ type
Output	Voltage accuracy	$\pm 2\%$
	Line regulation (HL-LL) (typ.)	$\pm 0.5\%$
	Load regulation (10-100%) (typ.)	$\pm 1\%$
	Ripple	$< 0.2\% V_{out} + 20mV$ max (Vp-p)
	Noise	$< 0.5\% V_{out} + 50mV$ max (Vp-p)
	Efficiency	79...83%
	Switching frequency	300kHz
Protection	Over current protection	Works over 120% of rating and recovers automatically
	Over voltage protection	Zener diode clamp Protection
	Short circuit protection	Current limit, auto-recovery
Isolation	Voltage	1500 VDC
	Resistance	$10^9$ ohms
	Capacitance	1000 pF
Environment	Operating temperature	-25°C...+71°C
	Storage temperature	-55°C...+105°C
	Case temperature	+95°C max.
	Temperature coefficient	$\pm 0.02\%$ Per°C
	Humidity	95% RH
	MTBF	$> 800,000$ h @ 25°C (MIL-HDBK-217F)
Physical	Dimension (L x W x H)	2.0 x 1.0 x 0.413 Inches (50.8 x 25.4 x 10.5 mm)
	Case Material	Nickel-Coated Copper with Non-conductive Base, six-side shielded
	Weight	32 g
	Cooling method	Free-air convection
Safety	Agency approvals	CE, cUL
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class A

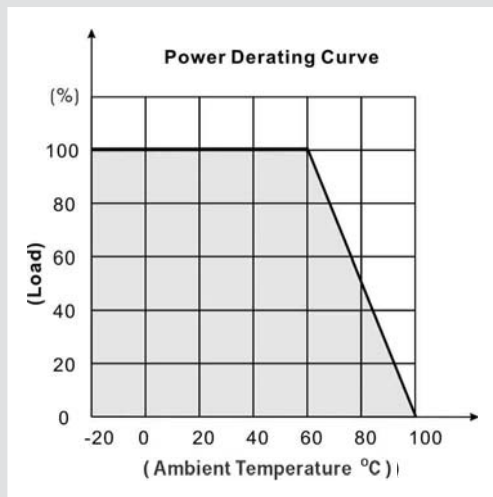
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### MECHANICAL DIMENSION (Top View)



PIN#	Single
1	ON / OFF CTL (Optional)
2	-DC IN
3	+DC IN
4	-DC OUT
5	NO PIN
6	+DC OUT

### DERATING



### BLOCK DIAGRAM

