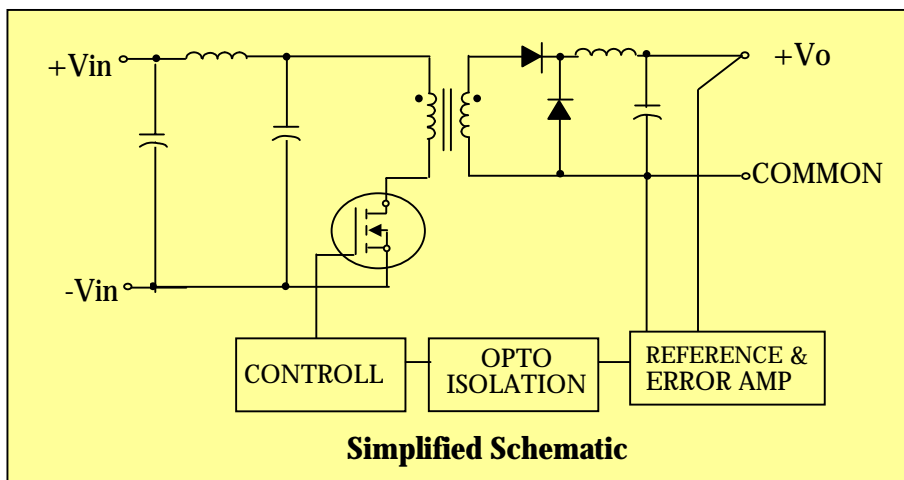# 25 watts /74×54×17mm/1500Vdc isolation
EM-027

Feature:
- High efficiency.
- Industry-standard package and pinout.
- 1500Vdc Input/ Output Isolation.
- No External Components required.
- Input inrush current less then 1A @ 48V.
- 2 Year Warranty.

Specifications: At 25°C

Input Specifications:		General Specifications:	
Input Voltage Range: 10~56VDC		**Isolation Voltage:** 1500Vdc	
Input Filter: Pi-type		**Efficiency:** 75% minimum @24V	
Output Specifications:		**Switching Frequency:** 200kHz typical	
Output Voltage & Current: 6.1V/4.0A		**Isolation Resistance:** 100M ohm	
Voltage Accuracy: ± 2 % max.		**Environmental Specifications:**	
Line Regulation(at full load): ± 1% max.		**Operating Temperature:** -40 to + 75°C	
Load Regulation (at full load to half load): ± 1% max.		**Storage Temperature:** -40 to +105°C	
Output (Min Load): +6.1V/200mA		**Cooling:** Free air convection	
Temperature Coefficient: ± 0.05%/°C max.		**Derating:** See Derating Curve	
		Humidity Non-Condensing: 20 to 95%RH	
Ripple & Noise(20MHz BW): @48V:50mVp-p max.		**Physical Specifications:**	
Protections: a. Reverse voltage protection (input) b. Over voltage protection (input/output) c. Short Circuit Protection: Power fold back d. Over load protection: Build-in		**Case Material:** Black coated copper with non-conductive plastic base **Pin Material:** Brass, solder coated **Weight:** 180grams typical	

Simplified Schematic

25 watts /74×54×17mm/1500Vdc isolation
EM-027

YCL

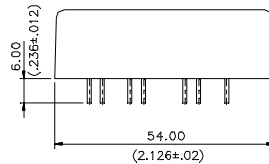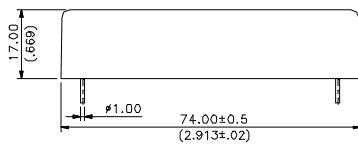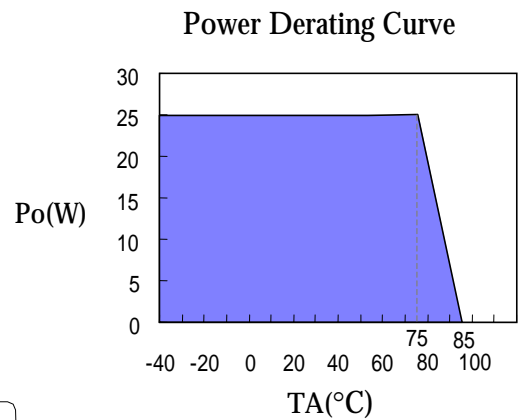| Model no. | Input at 10V | | | Output | | Efficiency | Package | External |
| | Voltage | Current(mA) | | Voltage | Current | Typical① | | Fuse② |
	(Vdc)	No-Load	Full-Load	(Vdc)	(mA)	%		(A)
EM-027	10-56	50mA	3.4A	+6.1	4000	75		5A

①Efficiency is specified at nominal input voltage and full load.
②Certain applications may require the installation of external fuse in front of the input.

Package /PIN Assignment:
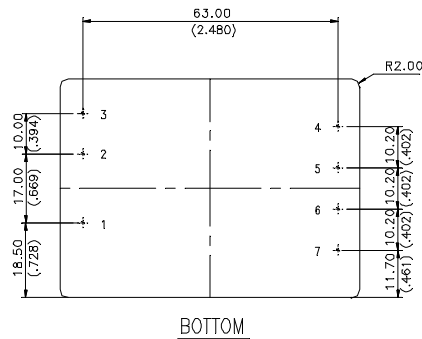
PIN	TRIPLE
1	+INPUT
2	-INPUT
3	F. G
4	+OUTPUT
5	NC
6	COM
7	NC

Power Derating Curve

Po(W)

TA(°C)

Unit: mm(inch) ± 0.25(0.010)