

**leOne**<sup>®</sup>

**ES-0F-060W**

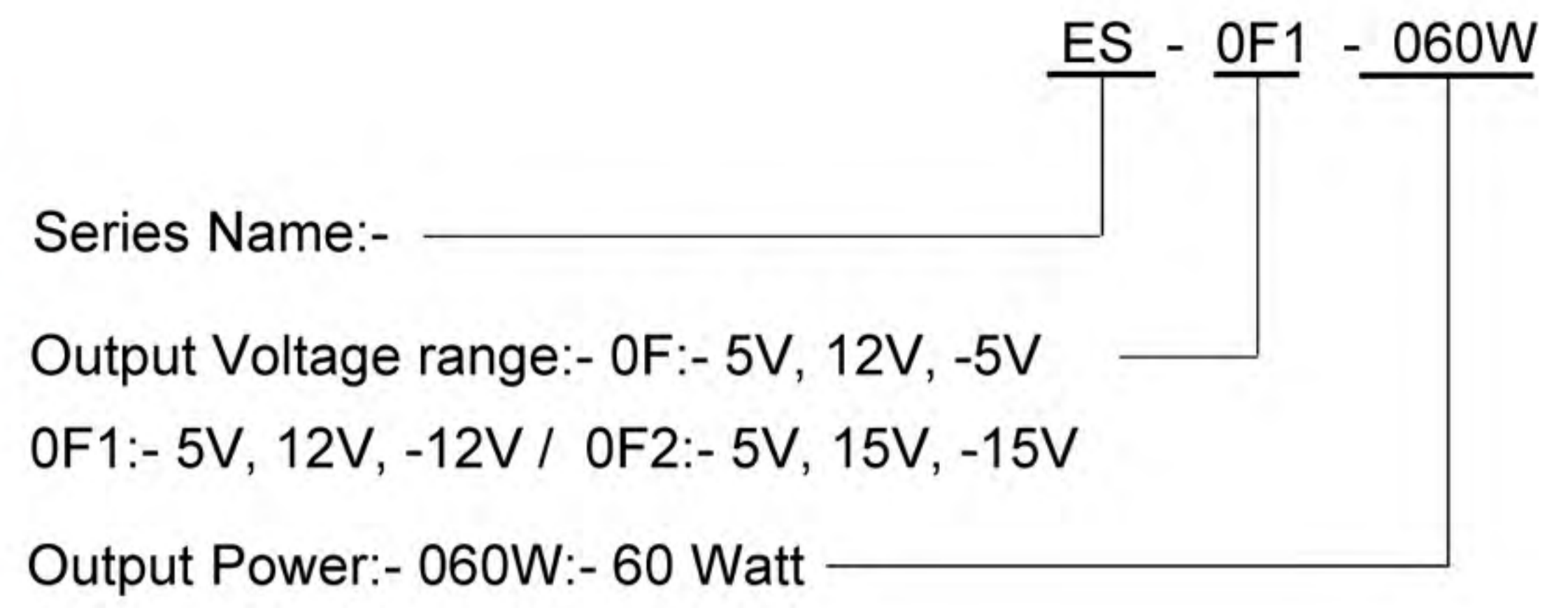
**POWER SUPPLY**

Tripple Output Switching Power Supply

0F:- 5V, 12V, -5V

0F1:- 5V, 12V, -12V

0F2:- 5V, 15V, -15V



### Features:-

Universal AC input / Full range

Protections: Short circuit/Over load/Over voltage

Cooling by free air convection

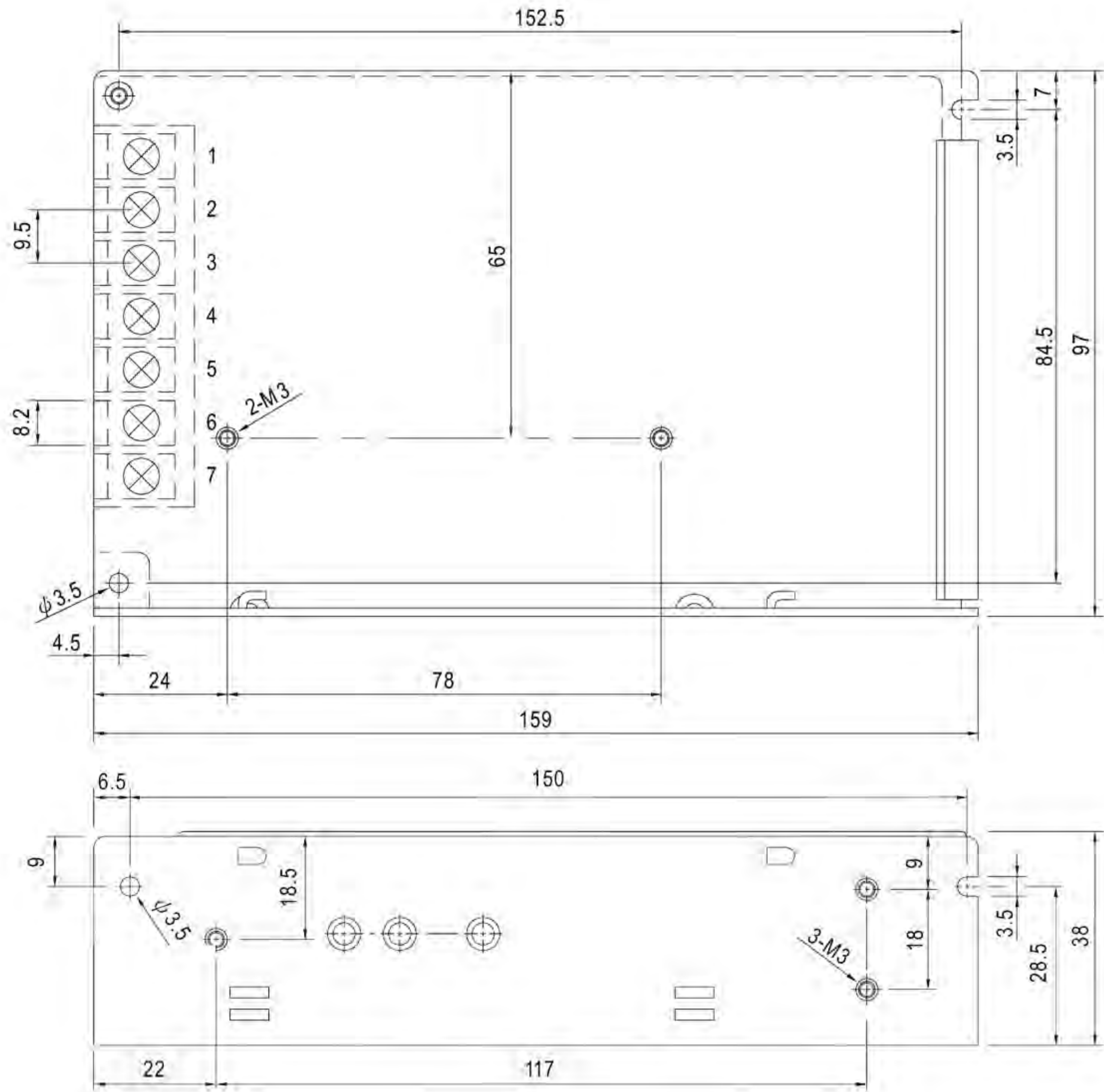
LED indicator for power on

Fixed switching frequency at 50KHz

Model		OF			OF1			OF2		
OUTPUT	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	RATED CURRENT	5A	2.5A	0.5A	5A	2.5A	0.5A	5A	2A	0.5A
	CURRENT RANGE	0.5 ~ 7A	0.2 ~ 3.5A	0 ~ 1A	0.5 ~ 7A	0.2 ~ 3.5A	0 ~ 1A	0.5 ~ 7A	0.2 ~ 3A	0 ~ 1A
	RATED POWER	57.5W			61W			62.5W		
	RIPPLE & NOISE (max.) Note.2	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±6.0%	±2.0%	±6.0%	±6.0%	±2.0%	±6.0%	±6.0%
	LINE REGULATION	±0.5%	±1.0%	±0.5%	±0.5%	±1.0%	±0.5%	±0.5%	±1.0%	±0.5%
	LOAD REGULATION	±1.0%	±4.0%	±1.0%	±1.0%	±4.0%	±1.0%	±1.0%	±4.0%	±1.0%
	SETUP, RISE, HOLD TIME	300ms, 50ms, 80ms/230VAC    800ms, 50ms, 10ms/115VAC at full load								
INPUT	VOLTAGE RANGE	85 ~ 264VAC    120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	72%			72%			72%		
	AC CURRENT	2A/115VAC    1A/230VAC								
	INRUSH CURRENT (max.)	COLD START 20A/115VAC    40A/230VAC								
	LEAKAGE CURRENT	<3.5mA/ 240VAC								
PROTECTION	OVERLOAD	105 ~ 150% rated output power. Protection type : Hiccup mode, recovers automatically after fault condition is removed.								
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V Protection type : Hiccup mode, recovers automatically after fault condition is removed.								
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFET (Note 4)	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG: 1.5KVAC O/P-FG:0.5KVAC								
	SOLUTION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC								
OTHERS	MTBF	281.1K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	159*97*38mm (L*W*H)								
	PACKING	0.494Kg; 30pcs/ 16.41Kg/0.0250CMB								
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>									

# Mechanical Specifications:-

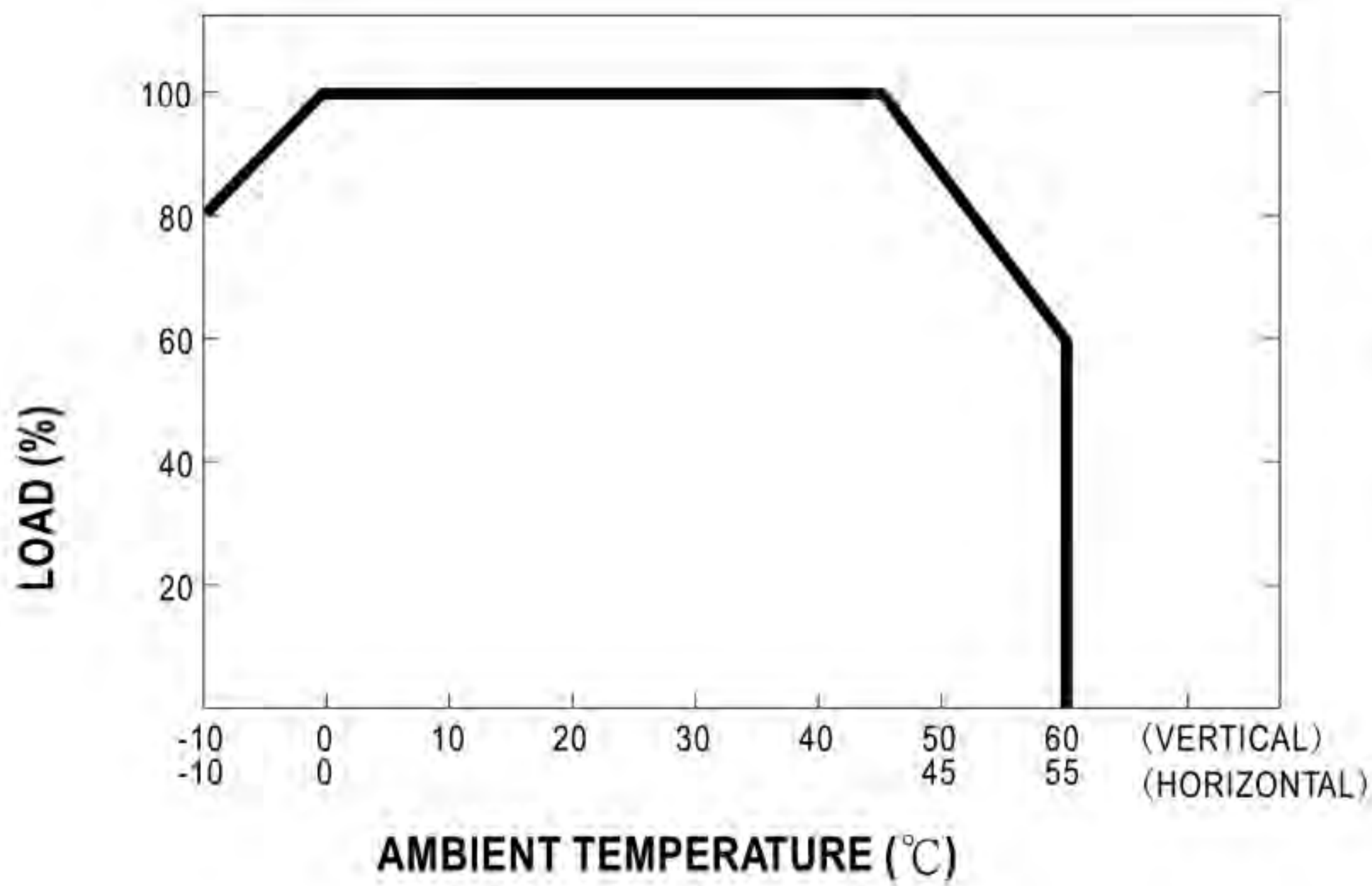
Unit: mm



Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V	7	DC OUTPUT +V1
2	AC/N	5	DC OUTPUT +V2		
3	FG $\perp$	6	DC OUTPUT COM		

Derating Curve:-



Static Characteristic (0F1)

