

FEATURES Single, Dual Outputs



- High Efficiency
- Encapsulated, Compact Case
- Universal Input
- Surface Mounting Technology
- Built-in EMI Filter
- Inrush Current Limit
- Fixed Output Voltage
- Thermal Shutdown
- Output Short Circuit Protection
- Low Output Ripple / Noise
- Isolated Output
- 2 Year Warranty



ELECTRICAL SPECIFICATIONS

Input	<ul style="list-style-type: none"> • Voltage AC 85V - 264V (or DC 110 - 340V) 50/60Hz (NOTE) • Current 0.31A Max. @110Vac / 0.16A Max. @220Vac • Frequency 47 - 440Hz Max. (50 - 60Hz Typ.) • Efficiency 71 - 78% Typ. • Inrush Current (at Cold Start) 30A Max. @110Vac / 60A Max. @220Vac • Leakage Current 0.5mA Max. @110Vac / 0.75mA Max. @220Vac
Output	<ul style="list-style-type: none"> • Output Voltage Tolerance $\pm 2.0\%$ (Single and Uncomplementary Dual) $\pm 3.0\%$ (Complementary Dual) • Ripple and Noise $\pm 1.0\%$ Max. • Line Regulation $\pm 1.0\%$ Max. • Load Regulation $\pm 1.0\%$ Max. • Dynamic Load Regulation $\pm 3.0\%$ Max. • Temp Drift $\pm 1.0\%$ Typ. • Rising Time 400ms Max. • Holding Time 10ms Min.
Protection Circuit	<ul style="list-style-type: none"> • Over Current Protection Work Over 105% of Rating (Recovers Automatically) • Over Temperature Protection 140°C Min.
Electrically Isolated	<ul style="list-style-type: none"> • Input - Output AC 3KV, 1min. 10mA / DC 500V, 100M Min. • Input - FG AC 2KV, 1min. 10mA / DC 500V, 100M Min. • Output - FG AC 0.5KV, 1min. 10mA / DC 500V, 700M Min.

ENVIRONMENTAL

- Operating Temperature Range -10°C ~ 60°C
- Operating Humidity (Non-Condensing) 20% ~ 90%RH
- Storage Temperature Range -20°C ~ 70°C
- Storage Humidity (Non - Condensing) 20% ~ 90%RH

- Vibration 10 ~ 55Hz at 10G 3Minutes Period
- Impact 50G for 11ms, once on each X, Y and Z-axis
- Cooling Method Convection
- MTBF (MIL-HDBK-217F) 3.5 X 10⁵ hrs
- Safety (Single Output) *Approved UL (UL 60950, CSA C22.2 NO.60950) : E227474
CB (IEC 60950-1) / CE_LVD (EN 60950) through TÜV
- EMC (Single Output) *Approved EN 61204-3 CLASS B / EN 6100-3-2 / EN 61000-3-3 through TÜV

* To meet the standard of EN61204-3 Class-B, use the external noise filter between L and N (Refer to manual)

NOTE For cases where conformance to various safety specs(UL, CSA, CE, CB etc)are required input voltage and frequency rabge will be 100-240 Vac, 50~60Hz.

ORDERING INFORMATION

Input	Output1	Output2	Maximum Power	Ripple&Noise Max.	Efficiency Typ.	Model Number
AC 85 ~ 264V or DC 110 ~ 340V	3.3V@3.00A		9.90W	80mVp-p	71%	FS15-3R3(C)
	5V@3.00A		15.00W	80mVp-p	75%	FS15-5(C)
	12V@1.30A		15.60W	120mVp-p	78%	FS15-12(C)
	15V@1.00A		15.00W	150mVp-p	78%	FS15-15(C)
	24V@0.65A		15.60W	200mVp-p	78%	FS15-24(C)
	+12V@0.65A	-12V@0.65A	15.60W	120/120mVp-p	75%	FSD15-1212
+15V@0.50A	-15V@0.50A	15.00W	150/150mVp-p	75%	FSD15-1515	

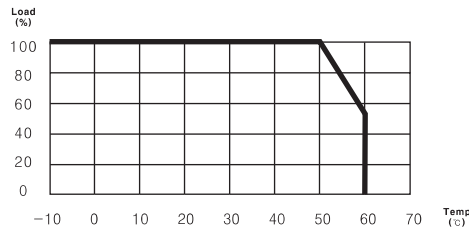
C: Chassis Mount Type

PIN ASSIGNMENTS

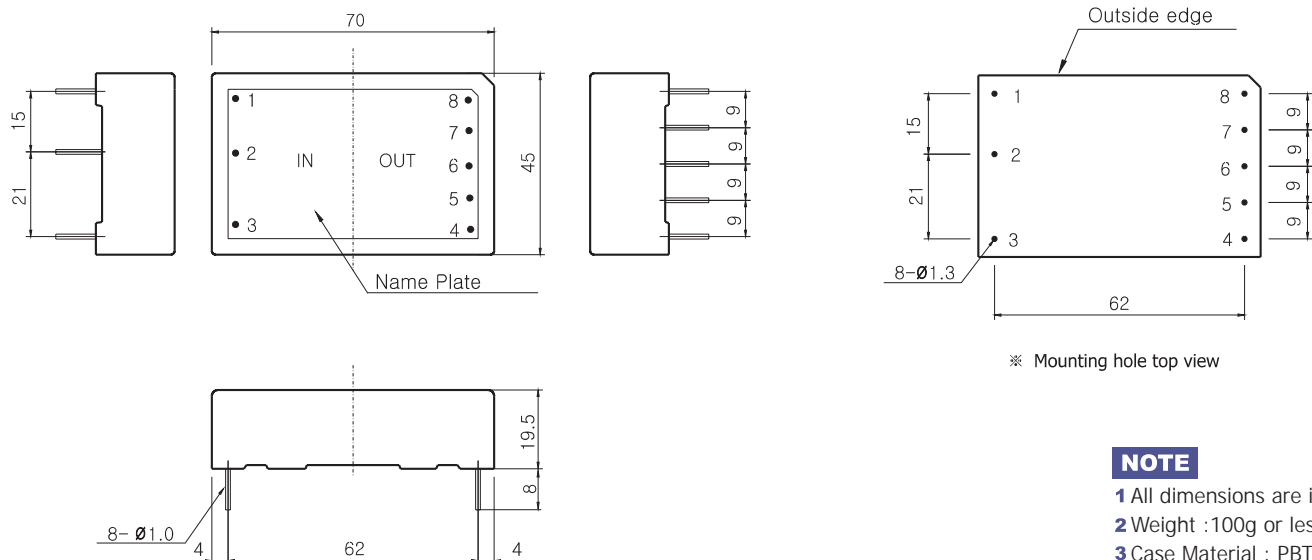
Single Output	Dual Output
1. FG	1. FG
2. AC(N)	2. AC(N)
3. AC(L)	3. AC(L)

4. No Pin	4. No Pin
5. Output 1	5. Output 1
6. No Pin	6. GND
7. GND	7. Output 2
8. No Pin	8. No Pin

DERATING CURVE



DIMENSION



NOTE

- 1 All dimensions are in mm
- 2 Weight :100g or less
- 3 Case Material : PBT