



FEATURES Single, Dual, Triple 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

- Voltage AC 85V - 264V (or DC 110 - 340V) 50/60Hz (**NOTE**)
- Current 0.21A Max. @110Vac / 0.11A Max. @220Vac
- Frequency 47 - 440Hz Max. (50 - 60Hz Typ.)
- Efficiency 70 - 82% Typ.
- Inrush Current (at cold start) 30A Max. @110Vac / 60A Max. @220Vac
- Leakage Current 0.5mA Max. @110Vac / 0.75mA Max. @220Vac

Output

- Output Voltage Tolerance $\pm 2.0\%$ (Single and Uncomplementary Dual) / $\pm 3\%$ (Complementary Dual)
- Ripple and Noise $\pm 1.0\%$ Max.
- Line Regulation $\pm 1.0\%$ Max.
- Load Regulation $\pm 1.0\%$ Max.@Output1 / $\pm 2.0\%$ Max. @Output2,3
- Dynamic Load Regulation $\pm 3.0\%$ Max.@Output1
- Temp Drift $\pm 1.0\%$ Typ.
- Rising Time 400ms Max.
- Holding Time 10ms Min.

Protection Circuit

- Over Current Protection Work Over 105% of Rating & Recovers Automatically
- Over Temperature Protection 140°C Min.

Electrically Isolated

- Input - Output AC 3KV, 1Min. 10mA / DC 500V, 100M Ω Min.
- Input - FG AC 2KV, 1Min. 10mA / DC 500V, 100M Ω Min.
- Output - FG AC 0.5KV, 1Min. 10mA / DC 500V, 70M Ω 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
- Safety (Dual Output) *Approved 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.

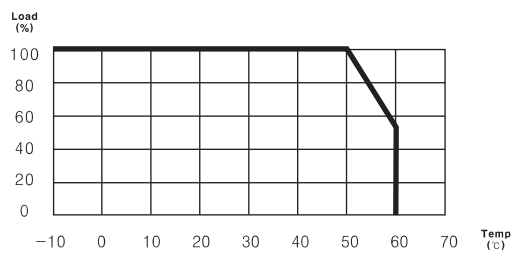
ORDERING INFORMATION

Input	Output1	Output2	Output3	Maximum Power	Ripple&Noise Max.	Efficiency Typ.	Model Number
AC 85 ~ 264V or DC 110 ~ 340V	3.3V@2.00A			6.60W	80mVp-p	70%	FS10-3R3
	5V@2.00A			10.00W	80mVp-p	75%	FS10-5
	12V@0.90A			10.80W	120mVp-p	78%	FS10-12
	15V@0.70A			10.50W	150mVp-p	80%	FS10-15
	24V@0.45A			10.80W	200mVp-p	82%	FS10-24
	+12V@0.45A	-12V@0.45A		10.80W	120/120mVp-p	75%	FSD10-1212
	+15V@0.35A	-15V@0.35A		10.50W	150/150mVp-p	75%	FSD10-1515
	5V@1.50A	+12V@0.15A	-12V@0.15A	11.10W	80/120/120mVp-p	75%	FST10-522M
	5V@1.50A	+15V@0.12A	-15V@0.12A	11.10W	80/150/150mVp-p	75%	FST10-5FFM

PIN ASSIGNMENTS

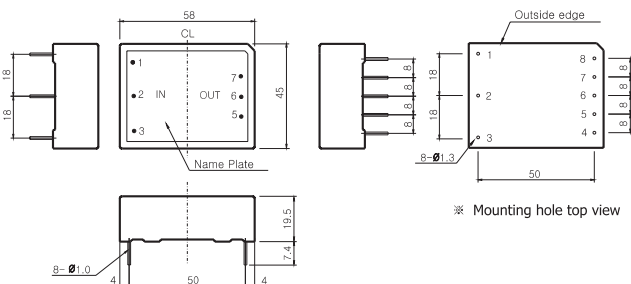
Single Output	Dual Output	Triple Output
1. FG	1. FG	1. FG
2. AC(N)	2. AC(N)	2. AC(N)
3. AC(L)	3. AC(L)	3. AC(L)
4. No Pin	4. No Pin	4. Output 1
5. Output 1	5. Output 1	5. GND
6. No Pin	6. GND	6. Output 2
7. GND	7. Output2	7. GND
8. No Pin	8. No Pin	8. Output 3

DERATING CURVE

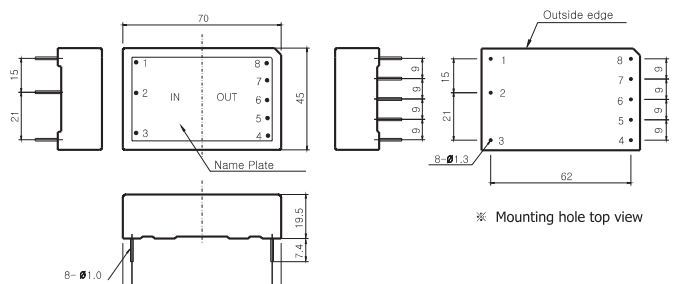


DIMENSION

Single, Dual Output



Triple Output



NOTE

- 1 All dimensions are in mm
- 2 Weight : 90g or less (Single, Dual)
100g or less (Tripe)
- 3 Case Material : PBT