

FS 30

FS 30 Series AC/DC Converters (Power tank II)

Total power 30 Watts
Input voltages AC85~264V or DC110~340V
#of outputs Single, Dual output



SPECIAL FEATURES

- Encapsulated, compact case
- High efficiency
- Universal input
- Surface mounting technology
- Built - in EMI filter
- Inrush current limit
- 100kHz fixed frequency
- Fixed output voltage
- Thermal shutdown
- Output short circuit protection
- Low output ripple & noise
- Isolated output
- 2 Years warranty

ENVIRONMENTAL

- Operating temperature range -10 °C ~ 60 °C
- Storage temperature range -20 °C ~ 70 °C
- Humidity 20% ~ 90%RH
- Vibration 10~55Hz at 10G 3minutes period
- Impact 50G for 11ms, once on each X, Y and Z-axis
- Cooling method Natural air
- MTBF 3.0×10^5 hrs
- Safety (single output) *CB (IEC 60950)
 *CE (EN 60950)
- Noise Meets FCC class B
 * Approvals pending

ELECTRICAL SPECIFICATIONS

INPUT	<ul style="list-style-type: none"> • Voltage AC85~264V (or DC 110~340V) • Current 0.49A max. @ 110VAC / 0.25A max. @ 220VAC • Frequency 47~440Hz max. (50~60Hz typ.) • Efficiency 80% min. • 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"> • Voltage tolerance $\pm 2\%$ (single and uncomplementary dual) $\pm 3\%$ (complementary dual) • Ripple and noise $\pm 1\%$ typ. • Line regulation $\pm 1\%$ typ. • Load regulation $\pm 1\%$ typ. • Dynamic load regulation $\pm 3\%$ typ. • Temperature drift $\pm 1\%$ typ. • Rising time 400ms max. • Holding time 10ms min.
PROTECTION CIRCUIT	<ul style="list-style-type: none"> • Output short circuit protection Work at over 105% of rating & recovers automatically • Over temperature protection 145 °C typ.
ELECTRICALLY ISOLATED	<ul style="list-style-type: none"> • Input - Output AC 4.8kV, 1minute, 10mA / DC 500V, 100MOhms min. • Input - FG AC 2kV, 1minute, 10mA / DC 500V, 100MOhms min. • Output - FG AC 0.5kV, 1minute, 10mA / DC 500V, 70MOhms min.

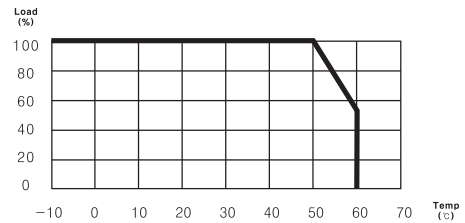
Ordering Information

Input	Output1	Output2	Maximum Power	Ripple&Noise max	Efficiency Typ.	Model Number
AC 85 ~ 264V or DC 110 ~340V	3.3V@6.0A 5V@6.0A 12V@2.5A 15V@2.0A 24V@1.25A		19.8W	80mVp-p	78%	FS30-3R3 FS30-5 FS30-12 FS30-15 FS30-24
			30W	80mVp-p	80%	
			30W	120mVp-p	83%	
			30W	150mVp-p	83%	
			30W	200mVp-p	86%	
	+12V@1.25A +15V@1.0A	-12V@1.25A -15V@1.0A	30W 30W	120/120mVp-p 150/150mVp-p	80% 80%	FSD30-1212 FSD30-1515

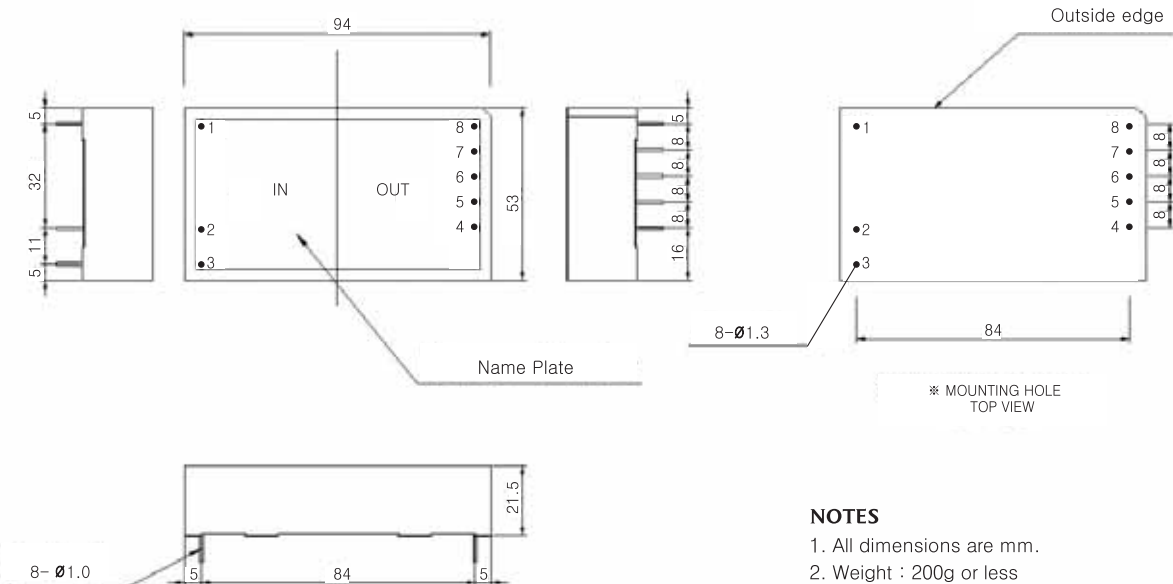
Pin assignments

Single Output	Dual Output
1. FG	1. FG
2. AC(N)	2. AC(N)
3. AC(L)	3. AC(L)
4. No connect	4. No pin
5. No pin	5. Output 1
6. Output1	6. Gnd
7. No pin	7. Output 2
8. GND	8. No pin

Derating curve



Dimensions



NOTES

- All dimensions are mm.
- Weight : 200g or less