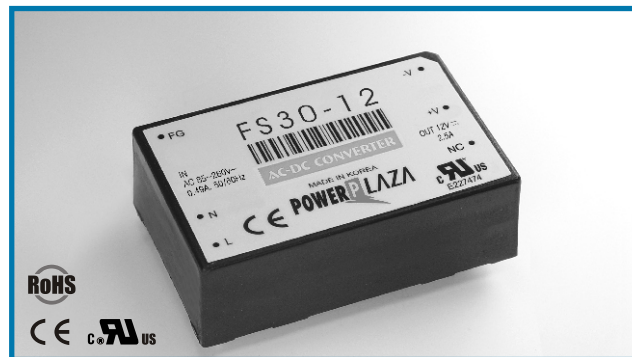


FS 30

FS 30 Series AC/DC Converters (Power tank)

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 ~60
- Storage temperature range -20 ~70
- 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 (MIL-HDBK-217F) 3.0×10^5 hrs
- Safety (single output) *Approved
 - └ UL (UL60950, CSA C22.2 NO.60950) : E227474 /
 - └ CE (EN 60950) - through TÜV
- Noise Meets FCC class

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 regulaion $\pm 3\%$ 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 typ.
ELECTRICALLY ISOLATED	<ul style="list-style-type: none"> · Input - Output AC 3KV, 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.

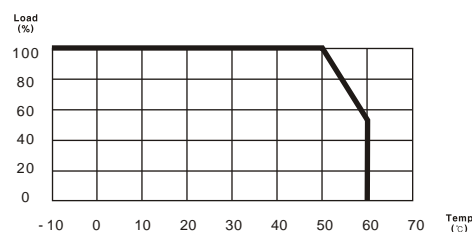
Ordering Information

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 30W 30W 30W 30W	80mVp-p 80mVp-p 120mVp-p 150mVp-p 200mVp-p	78% 80% 83% 83% 86%	FS30-3R3 FS30-5 FS30-12 FS30-15 FS30-24
	+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

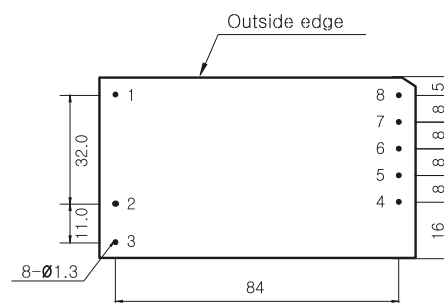
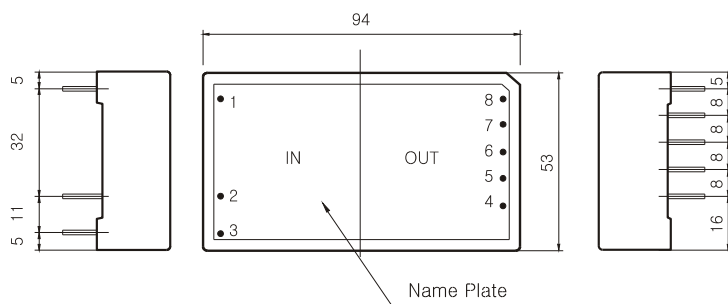
Pin assignments

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

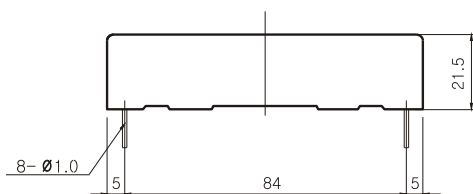
Derating curve



Dimensions



※ Mounting hole top view



NOTES

1. All dimensions are mm.
2. Weight : 200g or less