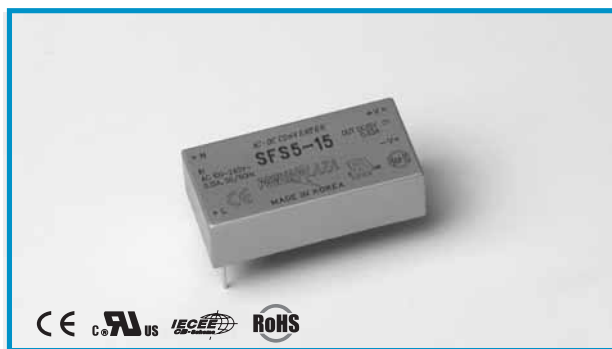


SFS 5, 10

SFS5, 10 Series AC/DC Converters

Total power 5, 10 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
- 100KHz fixed frequency
- Fixed output voltage
- Thermal shutdown
- Output short circuit protection
- Low output ripple & noise
- Isolated output (3KVAC)
- Over voltage protection (O.V.P.)
- Over current protection (O.C.P.)
- Low no-load power consumption
- 5Years 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 convection
 - Case Material PBT
 - MTBF (MIL-HDBK-217F) 4.5×10^5 hrs
 - Safety (5W single output) * Approved
 - UL (UL60950, CSA C22.2 NO.60950) : E227474 /
 - CB (IEC 60950) / CE (EN 60950) - through TÜV
 - EMC meet CISPR 22-B
- * To meet the standard of EN61204-3 class-B, use the external noise filter between L and N (Refer to manual)

ELECTRICAL SPECIFICATIONS

INPUT	<ul style="list-style-type: none"> • Voltage AC85~264V (or DC 110~340V) 50/60Hz (note) • Current 0.15A max. @ 110VAC / 0.08A max. @ 220VAC • Frequency 47~440Hz max. (50~60Hz typ.) • Efficiency 75% typ. • Inrush current (at cold start) 20A max. @ 110VAC. / 40A 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. @ Output1 / $\pm 2\%$ typ. @ Output 2 • Dynamic load regulation $\pm 3\%$ typ. @ Output1 • Temperature drift $\pm 1\%$ typ. • Rising time 100ms max. • Holding time 10ms min.
PROTECTION CIRCUIT	<ul style="list-style-type: none"> • Over voltage protection Clamp, 130~150% • Over current protection Work at over 105% of rating & recovers automatically • Over temperature protection 150℃ Latching, Recovery
ELECTRICALLY ISOLATED	<ul style="list-style-type: none"> • Input - Output AC 3KV, 1minute, 10mA / DC 500V, 100MOhms min.

NOTE 1. For cases where conformance to various safety specs (UL, CSA, CE, CB etc) are required input voltage and frequency range will be 100-240 VAC, 50-60Hz.

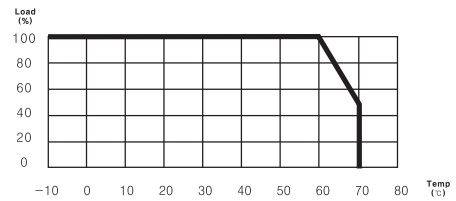
Ordering Information

Input	Output1	Output2	Maximum Power	Ripple&Noise max	Efficiency Typ.	Model Number
AC 85 ~ 264V or DC 110 ~340V	3.3V@1.25A		4.125W	80mVp-p	71%	SFS5-3R3
	5V@1.0A		5.0W	80mVp-p	75%	SFS5-5
	12V@0.42A		5.0W	120mVp-p	77%	SFS5-12
	15V@0.33A		5.0W	150mVp-p	77%	SFS5-15
	24V@0.21A		5.0W	200mVp-p	77%	SFS5-24
	+12V@0.21A	-12V@0.21A	5.0W	120/120mVp-p	75%	SFD5-1212
	+15V@0.17A	-15V@0.17A	5.0W	150/150mVp-p	75%	SFD5-1515
	3.3V@2.5A		8.25W	80mVp-p	75%	SFS10-3R3
	5V@2.0A		10.0W	80mVp-p	77%	SFS10-5
	12V@0.83A		10.0W	120mVp-p	80%	SFS10-12
15V@0.66A		10.0W	150mVp-p	80%	SFS10-15	
24V@0.42A		10.0W	200mVp-p	80%	SFS10-24	

Pin assignments

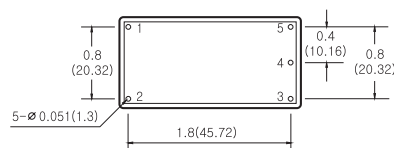
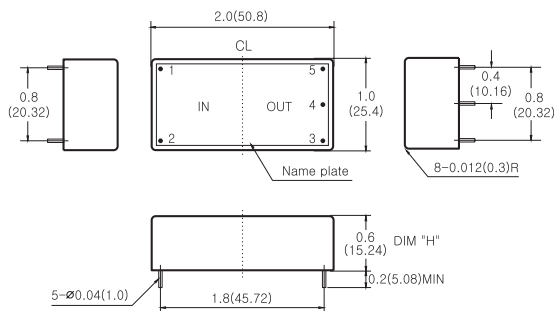
Single Output	Dual Output
1. AC(N)	1. AC(N)
2. AC(L)	2. AC(L)
3. No pin	3. -V
4. -V	4. GND
5. +V	5. +V

Derating Curve



Dimensions

► Single, Dual Output



※ Mounting hole top view

NOTES

- All dimensions are inch(mm).
- Weight : 40g or less (single, dual)-5W
80g or less (single) - 10W
- Case Material : PBT, 94V-0 Rated
- Construction : Encapsulated, Soft Pot
- Dimension "H"
0.6(15.24) for 5Watt / SFS5 version
0.9(22.86) for 10Watt / SFS10 version