

Unregulated
 Case Style: SIP 12
 Short circuit proof

INDUSTRIAL DC/DC Converters

Stand: 26/08
**1 - 2 Watt
 Series:
 FS12U- /E**

EN50178 / EN50124 / EN50155 / EN61800-5

Reinforced partial discharge free insulation min. 1kV AC rms up to 5kV

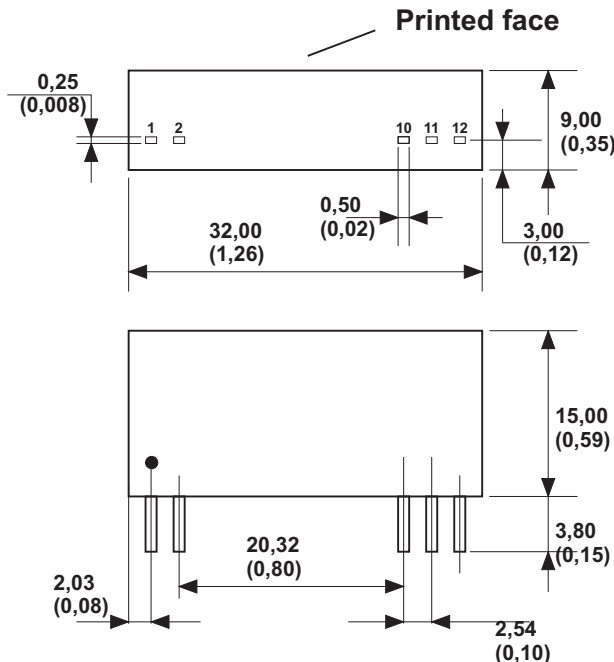
Electrical specifications:

Input voltage range:	+/-10%	Ripple:	typ. 150mVp-p
	Uin=5V -5% + 10%	Temperature coefficient:	+/-0,02% / °C
Output voltage accuracy:	+/- 2% (Vin=nominal & full load)	Insulation:	1000V AC rms partial discharge free
	+/- 5% (2W series)	Insulation test voltage:	7500V AC rms
Line Vin/Vout:	+/- 1% / +/- 1%	Efficiency:	min. 70%
Output voltage change:	3,3V, 5V output types 15% max.	short circuit protection:	continuous
(10% to 100% full load)	2W 5V input series 15% max.	Inrush overload:	max. 30%
	9V ~ 24V output types 10% max.	coupling capacitance:	~10pF
Ambient temperature:	-40°C to + 71°C	creepage distance	15mm min.
Operating temperature:	-40°C to + 95°C	PD-free insulation up to 5kV AC rms with respective test voltage magnitudes to notify with /E2 (2kV partial discharge free) up to /E5 (5kV partial discharge free)	

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

		1 Watt		2 Watt				1 Watt		2 Watt				
Part No.: SINGLE	Input voltage	Output voltage	Output current	Output current	Part No.: DUAL	Input voltage	Output voltage	Output current	Output current	Part No.: DUAL	Input voltage	Output voltage	Output current	Output current
FS12U-0505/E FS12U-0512/E FS12U-0515/E	5V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	FS12U-0505D/E FS12U-0512D/E FS12U-0515D/E	5V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA					
FS12U-1205/E FS12U-1212/E FS12U-1215/E	12V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	FS12U-1205D/E FS12U-1212D/E FS12U-1215D/E	12V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA					
FS12U-1505/E FS12U-1512/E FS12U-1515/E	15V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	FS12U-1505D/E FS12U-1512D/E FS12U-1515D/E	15V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA					
FS12U-2405/E FS12U-2412/E FS12U-2415/E	24V DC	5V DC 12V 15V	200mA 83mA 66mA	400mA 166mA 133mA	FS12U-2405D/E FS12U-2412D/E FS12U-2415D/E	24V DC	± 5V DC ±12V ±15V	±100mA ± 42mA ± 33mA	±200mA ± 83mA ± 67mA					

Any other input & output voltages available (for example 3,3V)



PIN CONNECTION		
PIN	SINGLE /E	DUAL /E
1	+ IN	+ IN
2	- IN	- IN
9	NP	NP
10	+ Vout	+ Vout
11	NC	- Vout
12	- Vout	COM

Input capacitor 6,8 - 10µF is a must.

ALL DIMENSIONS IN MM (INCHES)
 MILLIMETERS +/- 0,50mm
 (INCHES +/- 0,02")
 All pins on a 2,54mm pitch
 Note: NC = No connection; NP = No pin
 Dot denote pin 1

Specification may be changed without notice
 please contact office for verification

We can offer EMC - Filter
 according to EN55011/22 Class B.