

Stand: 36/20

Unregulated
Case Style: SIP 12
Short circuit proof

INDUSTRIAL DC/DC Converters

1 - 2 Watt
Series:
FS12U- /E

EN50178 / EN50124 / EN50155 / EN61800-5

Reinforced partial discharge free insulation min. 1kV AC rms up to 3kV

Electrical specifications:

Input voltage range: +/-10%
U_{in}=5V -5% + 10%

Output voltage accuracy: +/- 2% (V_{in}=nominal & full load)
+/- 5% (2W series)
+/- 1% / +/- 1%

Line Vin/Vout: +/- 1% / +/- 1%

Output voltage change: 3,3V, 5V output types 15% max.
(10% to 100% full load) 2W 5V input series 15% max.
9V ~ 24V output types 10% max.

Operating temperature: -40°C to +95°C
Ambient temperature: -40°C to +71°C

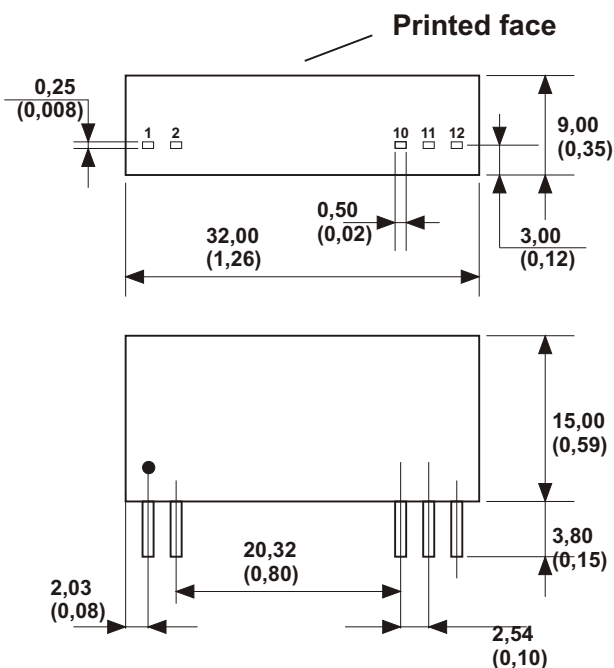
Ripple: typ. 150mVp-p
Temperature coefficient: +/-0,02% / °C
Insulation: 1000V AC rms partial discharge free
Insulation test voltage: 4000V AC rms
Efficiency: up to 80%
short circuit protection: continuous
Inrush overload: max. 30%
coupling capacitance: ~10pF
creepage distance: 15mm min.

PD-free insulation up to 3kV AC rms
with respective test voltage magnitudes
to notify with /E2 (2kV partial discharge free)
/E3 (3kV partial discharge free)

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Part No.: SINGLE	Input voltage	Output voltage	1 Watt		2 Watt		Part No.: DUAL	Input voltage	Output voltage	1 Watt		2 Watt	
			Output current	Output current	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)



Specification may be changed without notice
please contact office for verification

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

All specifications typical @ T_a +25°C
Nom. Vin & full load, unless otherwise specified!

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