

Stand: 09/09

Unregulated  
Case Style: SIP 7  
Short circuit proof

## INDUSTRIAL DC/DC Converters

1 Watt / 2 Watt  
Series: FS7U- /E

EN60950 + UL60950 / EN50124-1 UL50124-1

Reinforced partial discharge free insulation 1kV AC rms

### Electrical specifications:

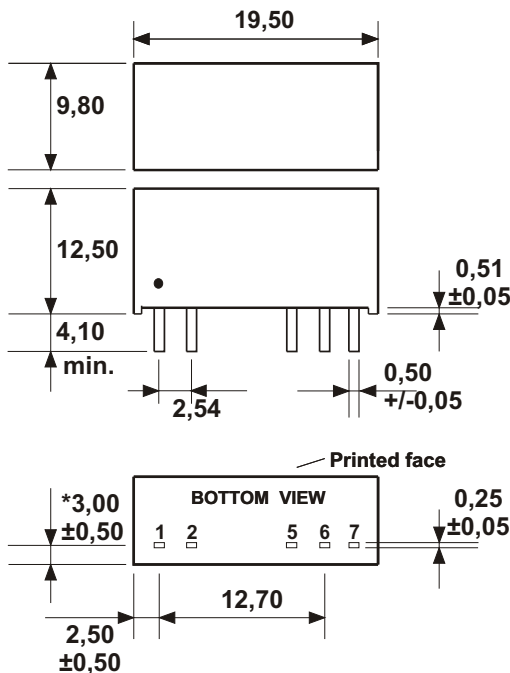
Input voltage range: +/- 10%  
Output voltage accuracy: +/- 2% (Vin=nominal & full load)  
Line Vin/Vout: +/- 1% / +/-1%  
Output voltage change: 3,3V, 5V output types 15% max.  
(10% to 100% full load) 2W 5V input series 15% max.  
9V ~ 24V output types 10% max.  
Output Ripple & Noise: 1W: 150mVp-p // 2W: 200mVp-p  
Temperature: Ambient -40°C to +71°C  
Operating temperature max. 95°C

Efficiency: min. 66%  
Short circuit protection: continuous  
Insulation: 1000V AC rms partial discharge free  
Insulation test voltage: 2000V AC rms base insulation  
Optional:  
Part-Nr. /R: 4000V AC rms Reinforced / double insulation  
8mm clearance / creepage  
Part-Nr. /8: asymmetric load @ dual output  
Part-Nr. /2: 0,25W output power  
Part-Nr. /5: 0,5W output power

### CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Single Output			1 Watt	2 Watt	Dual Output			1 Watt	2 Watt
Part - No.	Input Voltage	Output Voltage	Output current	Output current	Part - No.	Input Voltage	Output Voltage	Output current	Output current
FS7U-0505/E	5V	5V	200mA	400mA	FS7U-0505D/E	5V	+/- 5V	+/-100mA	+/-200mA
FS7U-0512/E		12V	83mA	166mA	FS7U-0512D/E		+/-12V	+/- 41mA	+/- 83mA
FS7U-0515/E		15V	66mA	132mA	FS7U-0515D/E		+/-15V	+/- 33mA	+/- 66mA
FS7U-1205/E	12V	5V	200mA	400mA	FS7U-1205D/E	12V	+/- 5V	+/-100mA	+/-200mA
FS7U-1212/E		12V	83mA	166mA	FS7U-1212D/E		+/-12V	+/- 41mA	+/- 83mA
FS7U-1215/E		15V	66mA	132mA	FS7U-1215D/E		+/-15V	+/- 33mA	+/- 66mA
FS7U-1505/E	15V	5V	200mA	400mA	FS7U-1505D/E	15V	+/- 5V	+/-100mA	+/-200mA
FS7U-1512/E		12V	83mA	166mA	FS7U-1512D/E		+/-12V	+/- 41mA	+/- 83mA
FS7U-1515/E		15V	66mA	132mA	FS7U-1515D/E		+/-15V	+/- 33mA	+/- 66mA
FS7U-2405/E	24V	5V	200mA	400mA	FS7U-2405D/E	24V	+/- 5V	+/-100mA	+/-200mA
FS7U-2412/E		12V	83mA	166mA	FS7U-2412D/E		+/-12V	+/- 41mA	+/- 83mA
FS7U-2415/E		15V	66mA	132mA	FS7U-2415D/E		+/-15V	+/- 33mA	+/- 66mA
FS7U-2424/E		24V	41mA	82mA	FS7U-2415D/E		+/-15V	+/- 33mA	+/- 66mA

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



PIN CONNECTION / INSULATION			
PIN	SINGLE / E base insulation	SINGLE / R reinforced	DUAL / E base insulation
1	VCC	VCC	VCC
2	GND	GND	GND
3	NP	NP	NP
4	NP	NP	NP
5	-Vout	NP	-Vout
6	NP	-Vout	COM
7	+Vout	+Vout	+Vout

ALL DIMENSIONS IN MM  
MILLIMETERS +/- 0,25mm  
All pins on a 2,54mm pitch  
Note: NP = No pin; NC = No connection;  
Dot denotes pin 1

Input capacitor 4,7µF - 10µF is a must.

Specification may be changed without notice  
please contact office for verification

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