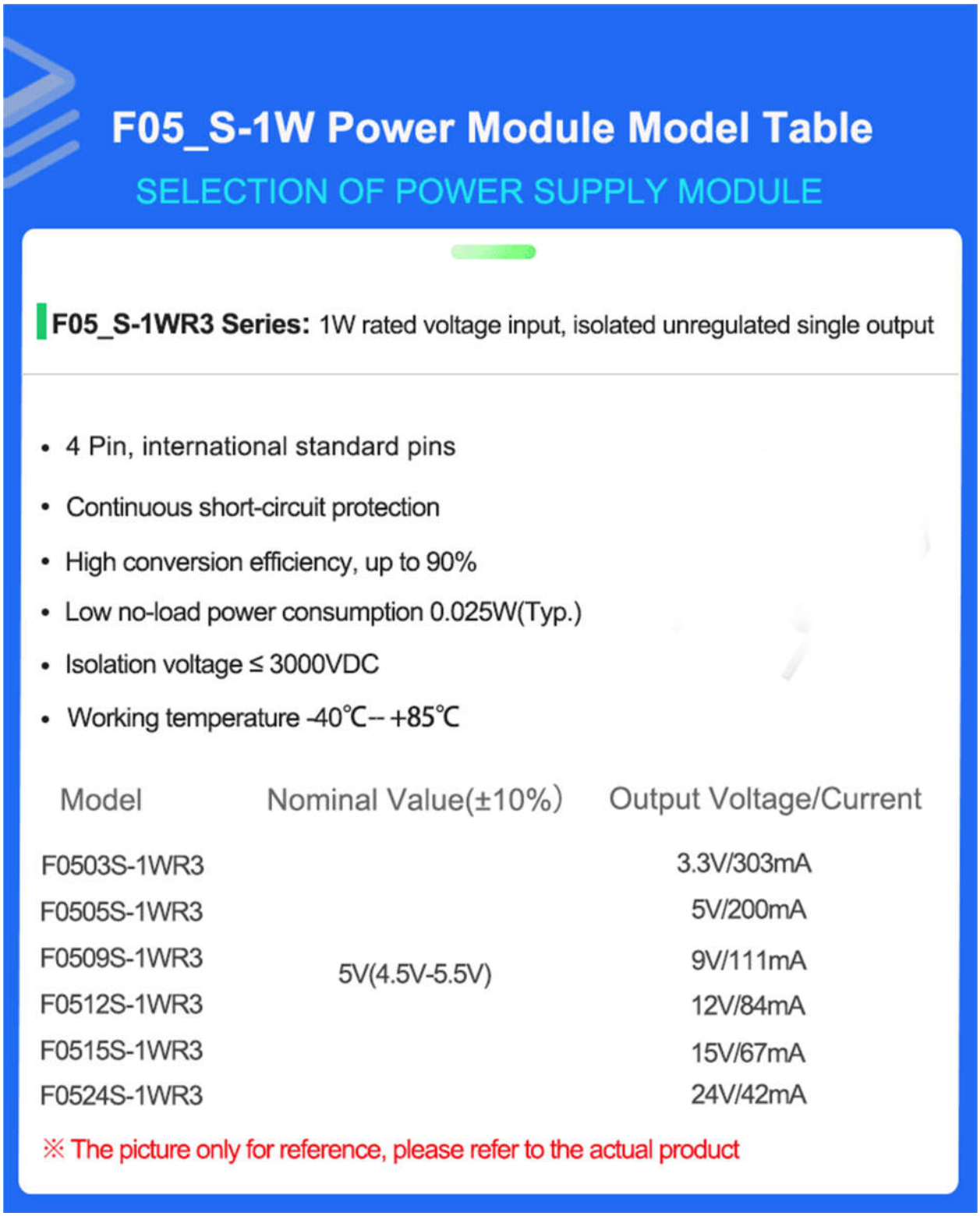


Product Feature

1. characteristic:Constant voltage input, isolated non stabilized voltage single output,1W
2. Isolation voltage≤3000VDC
3. Low no-load power consumption 0.025W(Typ.)
4. Transfer efficiency up to 90%
5. Output short-circuit protection: continuous short circuit protection, automatic recovery
6. The voltage of the input power supply is relatively stable.（Voltage variation range±10%Vin）
7. Operating temperature range ：-40°C~+85°C
8. Small SIP package
9. International standard pin， direct installation of PCB board.
10. High reliability and long life design,continuous working time MTBF≥3.5 million hours (3500000Hrs)

Enviroment Condition

Project name	Qualification	Unit	Notes
Working enviroment temperature	-40—+85	℃	
Storage temperture	-40—+125 ℃	℃	
Relative humidity	5—95	%	
Heat dissipation mode	natural cooling		
Atmospheric pressure	80—106 Kpa	Kpa	
Ripple & Noise	30/80(max)	Mvp-p	Pure resistive load, 20MHz broadband, peak-to-peak

Input Characteristics

Project name	Working conditions	Unit	Notes
Related input voltage	5	Vdc	
Input voltage range	4.5-5.5	Vdc	
Maximum input current	≤0.3	A	
Reflection ripple current	15	mA	DC5V rated input voltage series
Impulse voltage	≤9	Vdc	
Starting voltage	4.5	Vdc	
Input undervoltage protection	---	Vdc	
Start-up delay	---	ms	Rated input voltage and costant resistance load
Input filter type		Capacitance filter type	
Hot plugged		Non-support	

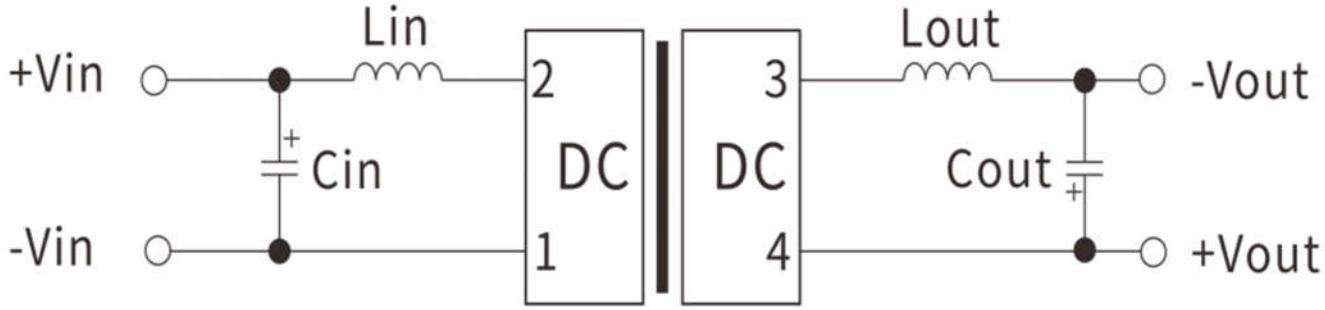
Output Characteristics(12v/84mA)

Project name	Technical requirement	Unit	Notes
No load rated output voltage	12V±15%	Vdc	
Short-time maximum output current	≥94	mA	
Rated output current	84	mA	
Voltage regulation	±1.5	%	
Load regulation	±12	%	
Transfer efficiency	Vin=12Vdc, output full load 90	%	
Output grain sweep noise(mVp-p)	Pure resistance load, 20MHz bandwidth, peak to peak value	mV	
Output over-voltage protection	Outputting the maximum voltage 110-160%	Vdc	
Insulation voltage	Input- output, test in 1 minute, leakage current less than 1mA/1500V	-	
Insulation resisitance	Input- output, insulation volaltge 500VDC/1000MΩ	MΩ	
Isolation capacitance	Input- output, 100KHz/0.1V 20pF	-	

Note:

1、The above is only a list of typical products. If you need products beyond the list, please contact our sales. 2、The maximum capacitive load indicates the maximum capacitive load that + VO or - vo can be connected to,If the value is exceeded, the product will not start normally..

Typical Application Circuits



EMC parameter recommendation

Component No.	Function	Recommended value
Cin Capacitance	Filter capacitor	4.7μA/50V
Cout Capacitance	Filter capacitor	2.2-10μA/50V
Lin inductance	Filter inductance	Inductance: 4.7uH
Lout inductance	Cin Capacitance	Inductance: 4.7uH

Notes：Output Load Requirements

In order to ensure that the module can work efficiently and reliably, the minimum output load should not be less than 10% of the rated load.If the power you need is really small, please connect a resistor in parallel between the positive and negative poles of the output terminal (the sum of the actual power used by the resistor is greater than or equal to 10% of the rated power and the rated power of the selected resistor must be greater than 5 times of the actual power used, otherwise the temperature of the resistor will be higher)