

EA_S-1W & FB_S-1W Series

1W, FIXED INPUT, 5200V ISOLATED & UNREGULATED DUAL/SINGLE OUTPUT DC-DC CONVERTER

multi-country patent protection **RoHS**

FEATURES

- 5.2KVDC Isolation
- SIP Package
- Temperature Range: -40°C to +85°C
- No Heatsink Required
- Internal SMD construction
- Low isolation capacitance
- No External Component Required
- Industry Standard Pinout
- RoHS Compliance

APPLICATIONS

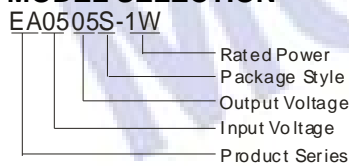
The EA_S-1W & FB_S-1W Series are specially designed for applications where a group of polar power supplies are isolated from the input power supply in a distributed power supply system on a circuit board.

These products apply to:

- 1) Where the voltage of the input power supply is fixed (voltage variation $\leq \pm 10\%$);
- 2) Where isolation is necessary between input and output (isolation voltage $\leq 5200\text{VDC}$);
- 3) Where the regulation of the output voltage and the output ripple noise are not demanding.

Such as: purely digital circuits, ordinary low frequency analog circuits, and IGBT power device driving circuits.

MODEL SELECTION



PRODUCT PROGRAM								
Part Number	Input		Output			Efficiency (% Typ)		
	Voltage (VDC)		Voltage (VDC)	Current (mA)				
	Nominal	Range		Max	Min			
EA0505S-1W	5	4.5-5.5	± 5	± 100	± 10	70		
EA0509S-1W			± 9	± 56	± 6	71		
EA0512S-1W			± 12	± 42	± 5	72		
EA0515S-1W			± 15	± 33	± 4	74		
FB0505S-1W			5	200	20	70		
FB0509S-1W			9	111	12	71		
FB0512S-1W			12	83	9	72		
FB0515S-1W			15	67	7	74		
EA1205S-1W			12	10.8-13.2	± 5	± 100	± 10	70
EA1209S-1W					± 9	± 56	± 6	72
EA1212S-1W	± 12	± 42			± 5	74		
EA1215S-1W	± 15	± 33			± 4	75		
FB1205S-1W	5	200			20	70		
FB1209S-1W	9	111			12	72		
FB1212S-1W	12	83			9	74		
FB1215S-1W	15	67			7	75		
EA2405S-1W	24	21.6-26.4			± 5	± 100	± 10	72
EA2409S-1W					± 9	± 56	± 6	74
EA2412S-1W			± 12	± 42	± 5	76		
EA2415S-1W			± 15	± 33	± 4	78		
FB2405S-1W			5	200	20	72		
FB2409S-1W			9	111	12	74		
FB2412S-1W			12	83	9	76		
FB2415S-1W			15	67	7	78		

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COMMON SPECIFICATIONS					
Item	Test Conditions	Min	Typ	Max	Units
Storage humidity range				95	%
Operating temperature		-40		85	°C
Storage temperature		-55		125	
Lead temperature	1.5mm from case for 10 seconds		300		
Temp. rise at full load			15	25	
Cooling	Free air convection				
Isolation voltage	Tested for 1 minute and 1mA max	5200			VDC
Isolation resistance	Test at 1000VDC	1000			MΩ
Short circuit protection*	5V input voltage	1 second(Max)			
	12V/24V input voltage	Continuous			
Case material	Plastic(UL94-V0)				
MTBF		3500			K Hours
Weight			4.2		g

*supply voltage must be discontinued at the end of short circuit duration.

