

## 50W DC/DC Switching Power Supply

**HF50W-SD Series** 



## **FEATURES**

- Full DC input range
- High reliability
- · Japanese brand components for key parts
- Electrolytic capacitors all 105°C
- 100% full load burn-in test
- · Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39mm

## **SPECIFICATIONS**

12V(10~18), 24V(18~36) 48V(36~72), 110V(72~144)VDC		
± 0.5%		
± 10%		
105~150%, hiccup mode, auto		
recovery		
hiccup mode, auto recovery		
50ms @full load (typical)		
enclosed		
160 x 98 x 39mm		
(L x W x H)		
-20°C ~+50°C		
-20°C ~+85°C		
20%~93%RH(non condensing)		
20%~95%RH(non condensing)		

MTBF	>100,000 hours
Cooling	convection
Safety Standards	design refer to GB4943, UL60950, EN60950
EMC Standards	design refer to GB9254,
	EN55022 Class A, EN61000
Withstand Voltage	I/P -O/P: 1.5KVAC/1min
	I/P - PE: 1.5KVAC/1min
	O/P-PE: 0.5KVAC/1min
Isolation Resistance	>100MΩ@500VDC
Vibration	10~150Hz, 2G 10min/1cycle,
	30min each along X, Y, Z axes
Connection	5P/9.5mm screw terminal
	block
Packing	0.43kgs, 30pcs/15kgs/0.031CBM per carton

Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF50W-SD12-5	5V 10.0A	50.0W	0.5%	± 2%	80mVp-p	73%
HF50W-SD24-5	5V 10.0A	50.0W	0.5%	± 2%	80mVp-p	80%
HF50W-SD48-5	5V 10.0A	50.0W	0.5%	± 2%	80mVp-p	80%
HF50W-SD110-5	5V 10.0A	50.0W	0.5%	± 2%	80mVp-p	81%
HF50W-SD12-12	12V 4.2A	50.4W	0.5%	± 1%	120mVp-p	78%
HF50W-SD24-12	12V 4.2A	50.4W	0.5%	± 1%	120mVp-p	85%
HF50W-SD48-12	12V 4.2A	50.4W	0.5%	± 1%	120mVp-p	87%
HF50W-SD110-12	12V 4.2A	50.4W	0.5%	± 1%	120mVp-p	88%
HF50W-SD12-24	24V 2.1A	50.4W	0.5%	± 1%	150mVp-p	78%
HF50W-SD24-24	24V 2.1A	50.4W	0.5%	± 1%	150mVp-p	85%
HF50W-SD48-24	24V 2.1A	50.4W	0.5%	± 1%	150mVp-p	80%
HF50W-SD110-24	24V 2.1A	50.4W	0.5%	± 1%	150mVp-p	84%
HF50W-SD12-48	48V 1.0A	48.0W	0.5%	± 1%	150mVp-p	78%
HF50W-SD24-48	48V 1.0A	48.0W	0.5%	± 1%	150mVp-p	85%
HF50W-SD48-48	48V 1.0A	48.0W	0.5%	± 1%	150mVp-p	85%
HF50W-SD110-48	48V 1.0A	48.0W	0.5%	± 1%	150mVp-p	86%

## **NOTE**

- 1. All parameters are measured at rated input voltage, rated load and 25°C of ambient temperature.
- 2. Line regulation is measured from low line to high line at rated load.
- 3. Load regulation is measured from 0% to 100% of rated load for single output models. For multi-output models, it is



measured from 20% to 100% of rated load, and other output at 60% rated load.

- 4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 5. The power supply is regarded as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

