DC6 6 Watt

FEATURES：

- Wide input range
- Continuous short-circuit protection,self recover
- I/O isolation voltage 5KV/6KV/8KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥200K hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
DC6-12S3X3AH5/H6/H8	12	4.5-18	3.3	1500			3000
DC6-12S05AH5/H6/H8			5	1200			2000
DC6-12S12AH5/H6/H8			12	500			470
DC6-12S15AH5/H6/H8			15	400			470
DC6-12S24AH5/H6/H8			24	250			200
DC6-12D05AH5/H6/H8			+5	600	-5	600	1500
DC6-12D12AH5/H6/H8			+12	250	-12	250	1000
DC6-12D15AH5/H6/H8			+15	200	-15	200	220
DC6-12D24AH5/H6/H8			+24	125	-24	125	100
DC6-18S3X3AH5/H6/H8	18	9-36	3.3	1500			3000
DC6-18S05AH5/H6/H8			5V	1200			2000
DC6-18S12AH5/H6/H8			12	500			470
DC6-18S15AH5/H6/H8			15	400			470
DC6-18S24AH5/H6/H8			24	250			200
DC6-18D05AH5/H6/H8			+5	600	-5	600	1500
DC6-18D12AH5/H6/H8			+12	250	-12	250	1000
DC6-18D15AH5/H6/H8			+15	200	-15	200	220
DC6-18D24AH5/H6/H8			+24	125	-24	125	100
DC6-36S3V3AH5/H6/H8	36	18-75	3.3	1500			3000
DC6-36S05AH5/H6/H8			5	1200			2000
DC6-36S12AH5/H6/H8			12	500			470
DC6-36S15AH5/H6/H8			15	400			470
DC6-36S24AH5/H6/H8			24	250			200
DC6-36D05AH5/H6/H8			+5	600	-5	600	1500
DC6-36D12AH5/H6/H8			+12	250	-12	250	1000
DC6-36D15AH5/H6/H8			+15	200	-15	200	220
DC6-36D24AH5/H6/H8			+24	125	-24	125	100

customized accepted,pls contact sales for details

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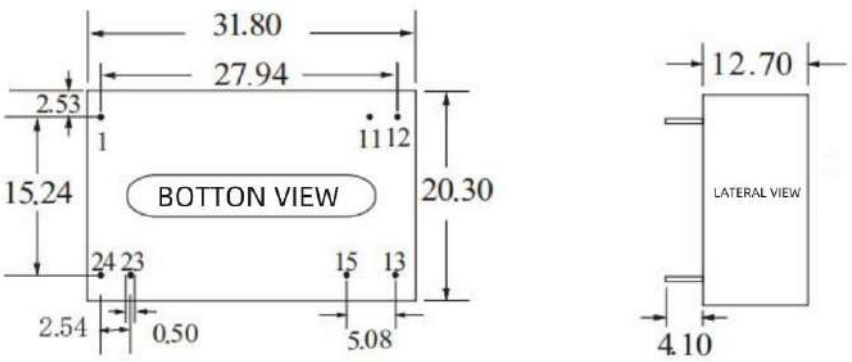
Input Specifications			
Input Voltage	Input Voltage Range（Vdc）	Nom(Vdc)	Max（Vdc）
	4.5-18	12	18
	9-36	18	36
	18-75	36	75
Hot Plug	Unavailable		

Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	50mVp-p	100mVp-p	20MHz bandwidth, 5%-100% load
Short-circuit Protection	Continuous, self-recovery		

Gerneral Specifications		
Switching Frequency	300KHz(Typ)	PWM mode
MTBF	200K hours	MIL-HDBK-217F@25℃
Isolation（Input-Output）	5KV/6KV/8KV	
Insulation Resistance	10000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40～+85℃	
Storage Temperature	-55～+125℃	
Storage Humidity	5-95%RH	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	12g（Typ）	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout



Unit: mm
tolerance: ±0.50
terminal tolerance: ±0.10

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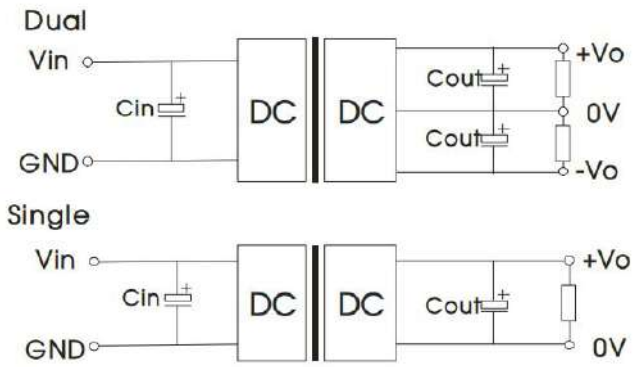
Pins			
Pin	Single	Dual	
1	Vin	Vin	
11	No Pin	0V	
12	0V	NC	
13	+Vo	-Vo	
15	NO PIN	+V	
23,24	GND	GND	

Recommended Circuit



Recommended input and output capacitor values				
Vin	Cin	Cout		
5	100uF/16V			
12	100uF/25V			
24	10uF/50V-47uF/50V			
48	10uF/100V-47uF/100V			

Note

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.

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