



**Power Supply**

## **I、 Environmental conditions**

1. Operating temperature:  $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
2. Storage temperature:  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
3. Relative humidity: 5% ~ 95%
4. Altitude:  $\leq 3000\text{m}$
5. Atmospheric pressure: 70 ~ 106kPa
6. Heat dissipation method: Natural conduction heat dissipation

## **II、 Input characteristics**

1. Input rated voltage value: 220VAC
2. Input voltage range: 165VAC ~ 285VAC

## **III、 Output electrical characteristics**

1. Output rated DC voltage: + 13.8VDC
2. Output current range: + 13.8VDC / 0A ~ 6A
3. Voltage stabilization accuracy:  $\leq \pm 2\%$
4. Load adjustment rate:  $\leq \pm 2\%$
5. Source adjustment rate:  $\leq \pm 1\%$
6. Output ripple: + 13.8VDC /  $\leq 100\text{mV}$

Note: Ripple measurement must be carried out within the rated input voltage and load, and one 0.1uF porcelain capacitor and one 10uF electrolytic capacitor should be added to the output end during the test. The oscilloscope bandwidth is 20MHz and EIAJ standard shall be adopted for measurement.

## **IV、 Other output features**

Project	Unit	Minimum value	Typical value	Maximum value	Test conditions
Output power	W	—	—	82.8	
Output efficiency	%	80		—	48Vdc/Full load output
Temperature coefficient	/°C			±0.02%	

#### V、Protection function

Project	Unit	Minimum value	Typical value	Maximum value	Remark	Test conditions
+13.8Vdc Output current limiting protection	A	7		8	Automatic recovery	
Short-circuit protection	A				Automatic protection, automatic recovery	

#### VI、Safety code and pressure class

Project	Level	Criteria (or test conditions)
Insulation voltage (output to ground)	500Vdc	500VDC /1 min/leakage current≤10mA
Insulation voltage (input to ground)	1500Vdc	1500VDC /1 min/leakage current≤10mA
Insulation voltage (input-output)	1500Vdc	1500VDC /1 min/leakage current≤10mA
Insulation resistance	100MΩ	Under normal atmospheric pressure, the relative humidity is 90%, and the test voltage is DC 500V, the insulation resistance of power input to output, input to ground, and output to ground are not less than 10MΩ

Note: remove discharge tube during test

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**CONTACT CHINA MONEYPRO GROUP NOW:**

**EMAIL: SALES@MONEYPROUAV.COM**

**MOBILE: +86-18126437260 (WHAT'S UP) MS. AMY LUO**