

# WD12V 16CH,10A

## Features:

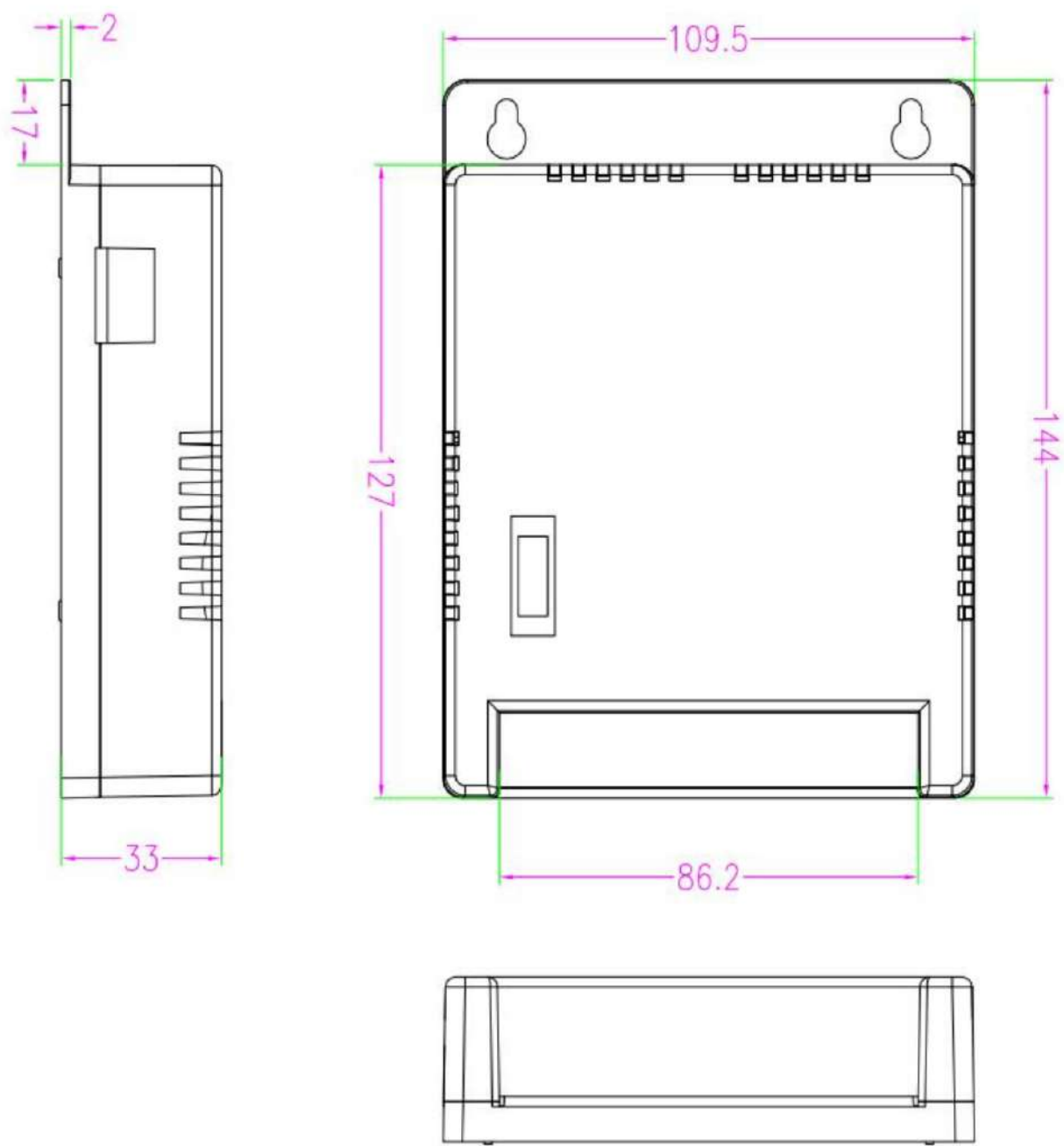
- 16 channel output
- With cable compensation switch
- LED indicator for each channel
- Thermistor for each channel
- Plastic housing
- Cooling by free air convection
- Built-in constant current limiting circuit
- 100% full load built-in test
- 2 years warranty



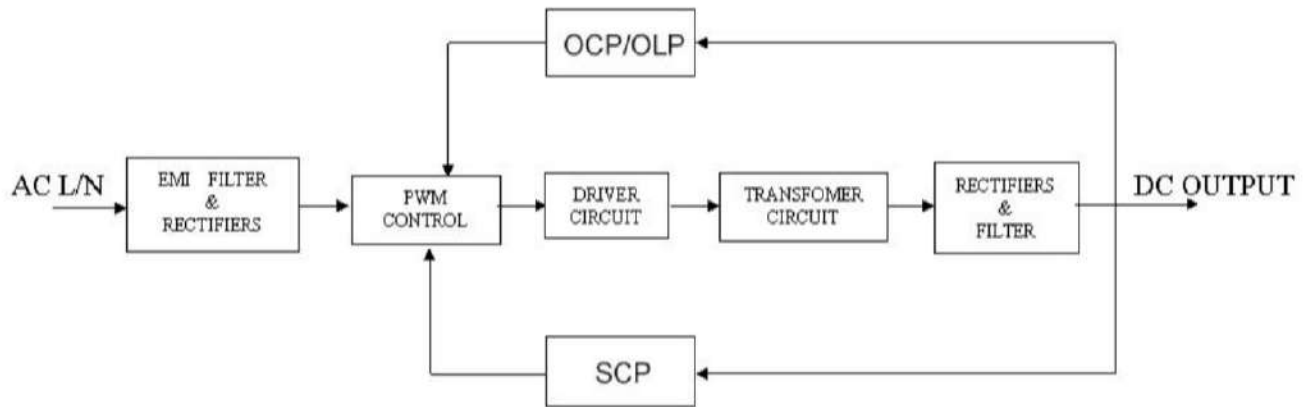
| Model        | WD12V 16CH,10A                  |                                                                                                                   |              |              |
|--------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Output       | DC Voltage (Selected by switch) | 12V                                                                                                               | 12V          | 12V          |
|              | Rated Current                   | 10A                                                                                                               | 10A          | 10A          |
|              | Current Range                   | 0~10A                                                                                                             | 0-8.9A       | 0~8A         |
|              | Rated Power                     | 120W                                                                                                              |              |              |
|              | Ripple & Noise (max.)           | 120mVp-p                                                                                                          | 135mVp-p     | 150mVp-p     |
|              | Voltage Range                   | 11.4~12.6V                                                                                                        | 12.82~14.17V | 14.25~15.75V |
|              | Line Regulation                 | ±1.0%                                                                                                             | ±1.0%        | ±1.0%        |
|              | Load Regulation                 | ±5.0%                                                                                                             | ±5.0%        | ±5.0%        |
|              | Setup,Rise time                 | 2500ms,15ms at full load                                                                                          |              |              |
|              | Hold Up Time(Typ.)              | 55ms at full load                                                                                                 |              |              |
| Input        | Voltage Range                   | 150~285VAC                                                                                                        |              |              |
|              | Frequency Range                 | 47~63HZ                                                                                                           |              |              |
|              | Efficiency(Typ.)                | 86%                                                                                                               | 86%          | 86%          |
|              | AC Current (Typ.)               | 1A / 220VAC                                                                                                       |              |              |
|              | Inrush Current (Typ.)           | Cold Start; 40A/220VAC                                                                                            |              |              |
|              | Leakage Current                 | Plastic housing, no leakage current                                                                               |              |              |
| Protection   | Over Load                       | 110~200% rated output power<br>Protection type: Shut down O/P,recovers automatically                              |              |              |
|              | Over Current                    | 110~200% rated output current<br>Protection type: Shut down O/P,recovers automatically after over current removed |              |              |
|              | Short circuit                   | Protection type: Shut down O/P,recovers automatically after fault removed                                         |              |              |
|              |                                 |                                                                                                                   |              |              |
| Environment  | Working Temperature             | -20~+45°C                                                                                                         |              |              |
|              | Working Humidity                | 20~90% RH Non-condensing                                                                                          |              |              |
|              | Storage temp.& humidity         | -20~+85°C, 10~95%RH                                                                                               |              |              |
|              | Temp. coefficient               | ±0.03%/°C (0~50°C)                                                                                                |              |              |
|              | Vibration                       | 10 ~ 500Hz, 3G 10min./1 cycle,60min.each along X、Y、Z axes                                                         |              |              |
| Safety & EMC | Safety Standards                | UL60950-1 standard                                                                                                |              |              |
|              | Hi-pot test                     | 3KV 5mA for 60S                                                                                                   |              |              |
|              | Isolation Resistance            | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH                                                         |              |              |
|              | EMC Emission                    | Compliance to EN55022(CISPR22) Class B, EN61000-3-2,-3, GB9254 Class B                                            |              |              |
|              | EMC Immunity                    | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A                                 |              |              |
| Surge        | Differential mode               | 2KV                                                                                                               |              |              |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Others | Standby Power                                                                                                                                                                                                                                                                                                                                                                                                                      | <1.3Watt                      |
|        | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                               | 10000hrs MIL-HDBK-217F (25°C) |
|        | Dimension                                                                                                                                                                                                                                                                                                                                                                                                                          | 144*109.5*33 mm (L*W*H)       |
|        | Weight                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.27kg/pc                     |
| Note   | <p>1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltages.</p> |                               |

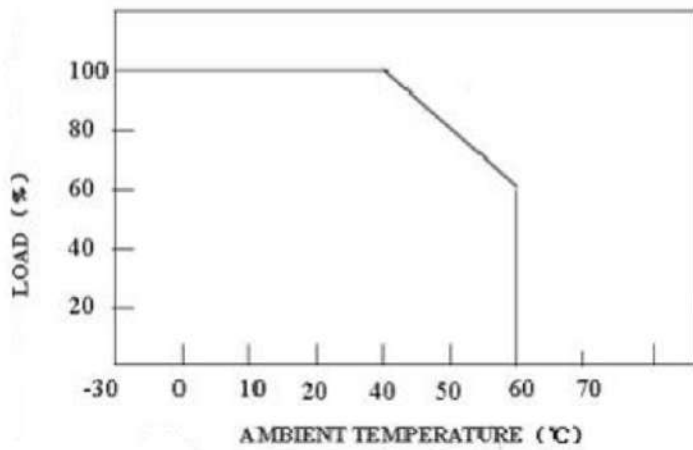
Mechanical Specification



### Block Diagram



### Derating Curve



### Output Derating VS Input Voltage

