

PSD10-12-1212

## SPECIFICATIONS

C209-01-01B

| MODEL |                              |    | PSD10-12-1212                                                                                                             |           |
|-------|------------------------------|----|---------------------------------------------------------------------------------------------------------------------------|-----------|
| ITEMS |                              |    | CH1                                                                                                                       | CH2       |
| 1     | Nominal Output Voltage       | V  | +12 (+15)                                                                                                                 | -12 (-15) |
| 2     | Maximum Output Current       | A  | 0.5 (0.4)                                                                                                                 | 0.5 (0.4) |
| 3     | Maximum Output Power         | W  | 12.0                                                                                                                      |           |
| 4     | Efficiency (Typ.) (*1)       | %  | 84                                                                                                                        |           |
| 5     | Input Voltage Range          | -  | 9.0 ~ 18.0VDC                                                                                                             |           |
| 6     | Input Current (Typ.) (*1)    | A  | 1.19                                                                                                                      |           |
| 7     | Output Voltage Accuracy (*1) | %  | ±5                                                                                                                        |           |
| 8     | Output Voltage Range (Typ.)  | V  | +12 ~ +15                                                                                                                 | -12 ~ -15 |
| 9     | Maximum Ripple & Noise (*2)  | mV | 120                                                                                                                       | 120       |
| 10    | Maximum Line Regulation (*3) | mV | 40                                                                                                                        | 40        |
| 11    | Maximum Load Regulation (*4) | mV | 600                                                                                                                       | 600       |
| 12    | Over Current Protection (*5) | -  | Yes                                                                                                                       |           |
| 13    | Over Voltage Protection      | -  | No                                                                                                                        |           |
| 14    | Parallel Operation           | -  | -                                                                                                                         |           |
| 15    | Remote ON/OFF Control        | -  | Yes                                                                                                                       |           |
| 16    | Series Operation             | -  | Possible                                                                                                                  |           |
| 17    | Operating Temperature (*6)   | -  | -40°C ~ 85°C                                                                                                              |           |
| 18    | Operating Humidity           | -  | 5% - 95%RH (No Dewdrop)                                                                                                   |           |
| 19    | Storage Temperature          | -  | -40°C ~ 85°C                                                                                                              |           |
| 20    | Storage Humidity             | -  | 5% - 95%RH (No Dewdrop)                                                                                                   |           |
| 21    | Cooling                      | -  | Convection Cooling / Forced air cooling                                                                                   |           |
| 22    | Temperature Coefficient (%)  | -  | Less than 0.02%/°C                                                                                                        |           |
| 23    | Withstand Voltage            | -  | Input-Output, Input-Case : 500VAC for 1min (20mA)                                                                         |           |
| 24    | Isolation Resistance         | -  | More than 100MΩ at 25°C and 70%RH<br>Output-Case : 500VDC                                                                 |           |
| 25    | Vibration                    | -  | At No Operating, 10-55Hz Amplitude (Sweep for 1min.)<br>1.52mm Constant (Maximum 88.3m/s <sup>2</sup> ) X,Y,Z 2 hour each |           |
| 26    | Shock                        | -  | 196.1m/s <sup>2</sup>                                                                                                     |           |
| 27    | Weight (Typ.)                | g  | 14                                                                                                                        |           |
| 28    | Size (WxHxD)                 | mm | 40.5 x 8.0 x 22.0 (Refer to Outline Drawing)                                                                              |           |

= NOTES =

\*1. At 12VDC and maximum output power and Ta=+25°C.

\*2. This is specified at the output terminals by JEITA RC-9141 measuring method.

\*3. From 9.0 ~ 18.0VDC, constant load (balanced load).

\*4. From No load - Full load (balanced load), constant input voltage.

\*5. Constant current limiting with automatic recovery.

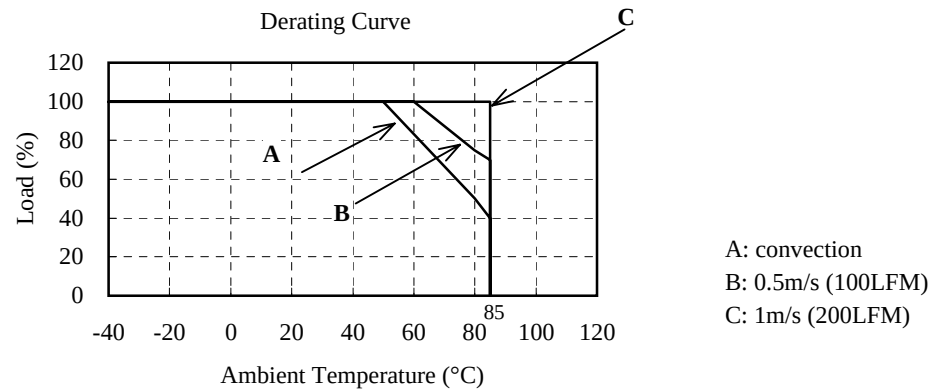
Avoid to operate over load or dead short for longer than 30 sec.

(Refer to instruction manual for details.)

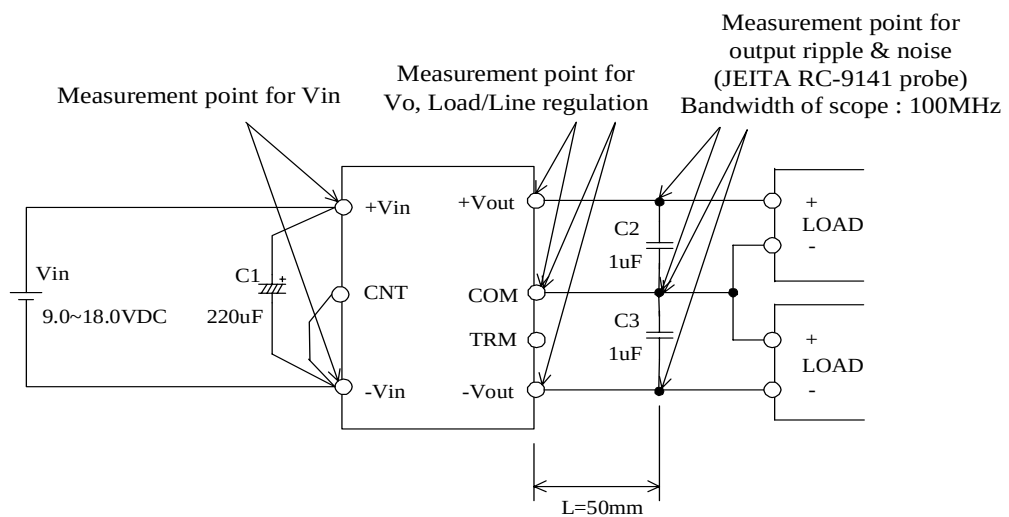
\*6. Rating - Refer to derating curve (C209-01-02\_).

- Load(%) is percent of maximum output current.

### 1. DERATING CURVE



### 2. BASIC CONNECTION



==NOTES==

- \*1. Put input capacitors.  
C1: 220uF
- \*2. Put output capacitors.  
C2, C3: 1uF ceramic capacitor.
- \*3. Refer to instruction manual for further details.