

## 5W Single Output DC-DC Converter

## **PSD-05** series



- Features :
- 2:1 wide input range
- · Protections:Short circuit/Over load /Over voltage/Over temperature
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- · Fix switching frequency at 67KHz
- Low cost
- High reliability
- 1 year warranty

| MODEL       | WT   | PSD-05-05   | PSD-05-12  | PSD-05-24  |  |
|-------------|--|---|--|--|--|
| .100-       | DC VOLTAGE   | 5V  | 12V  | 24V  |  |
| -1001.      | RATED CURRENT  | 1A  | 0.45A  | 0.22A  |  |
| N           | CURRENT RANGE  | 0~1A  | 0~0.5A   | 0~0.25A  |  |
| W.100       | RATED POWER  | 5W  | 5.4W   | 5.28W  |  |
| OUTPUT      | RIPPLE & NOISE (max.) Note.2   | 50mVp-p   | 100mVp-p   | 150mVp-p   |  |
| NN.Y        | VOLTAGE TOLERANCE Note.3   |   | ±2.0%  | ±2.0%  |  |
|             | LINE REGULATION  | ±1.0%   | ±1.0%  | ±0.5%  |  |
| N           | LOAD REGULATION  | ±1.0%   | ±1.0%  | ±0.5%  |  |
| · ////      | SETUP, RISE, HOLD UP TIME  | 1.2s, 20ms, at full load  | 1.2s, 20ms, at full load   |  |  |
|             | VOLTAGE RANGE  | 36 ~ 72VDC  | 100, 0M.1  | N. In COM.   |  |
| INPUT       | EFFICIENCY(Typ.)   | 75%   | 78%  | 78%  |  |
| ~~~         | DC CURRENT(Typ.)   | 0.15A/48V   | N.I. COM.  | ALW N. COM   |  |
| W.          | -1001 MT   | Above 105% rated output pr  | Above 105% rated output power  |  |  |
| W.          | OVER LOAD  | Protection type : Fold back current limiting, recovery automatically after fault condition is removed               |  |  |  |
|             | ALLON CONT.  | 5.75~ 6.75V   | 13.8~16.2V   | 27.6~ 32.4V  |  |
| PROTECTION  | OVER VOLTAGE   |   | ode, recovery automatically after fault conc   |  |  |
|             | MM. M. COM   | U1 Tj140 typically(U1)Detect on main control IC   |  |  |  |
|             | OVER TEMPERATURE   | Protection type : Hiccup mode, recovery automatically after temperature goes down                                   |  |  |  |
|             | WORKING TEMP.  | -10 ~ +60°C (Refer to output  |  | A 100 x.   |  |
|             |  | 20 ~ 90% RH non-condensir   |  | You WWW.   |  |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY  | -20 ~ +85°C, 10 ~ 95% RH  | Moon with  | 1.100  |  |
|             | TEMP. COEFFICIENT  | ±0.05%/°C (0 ~ 50°C)  | WWW. OOX.CO.   | POLIS WWW  |  |
|             | VIBRATION  |   | cle, Period for 60min.each along X, Y, Z ax  |  |  |
|             | WITHSTAND VOLTAGE  | I/P-O/P:2KVAC   |  |  |  |
|             | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100   | 0M Ohms/500VDC   | A NOT  |  |
| SAFETY &    | EMI CONDUCTION & RADIATION   |   |  | NA.  |  |
| EMC         | EMS IMMUNITY   |   | 2, 3, 4, 6, 8 ENV50204, EN55024, EN6100  | 00-6-1 Light industry level, criteria A  |  |
|             | DIMENSION  | 75*40*20mm (L*W*H)  | , 0, 1, 0, 0 E1110010 ., E11110 .,   |  |  |
| OTHERS      | PACKING  | 50mg;120pcs/6.25Kg/1CUF   | FT STN. 100  | -ON-   |  |
|             | 1. All parameters NOT specia<br>2. Ripple & noise are measur<br>3. Tolerance : includes set up | ially mentioned are measu<br>ured at 20MHz of bandwidtl<br>up tolerance, line regulation<br>dered a component which | ured at 48VDC input, rated load and 2<br>th by using a 12" twisted pair-wire term<br>on and load regulation. | $25^{\circ}$ C of ambient temperature.<br>rminated with a 0.1uf & 47uf parallel capae<br>nt.The final equipment must be re-confirm |  |

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