

■ Features :

- Single in line package
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in EMI filter without external components
- Protections: Short circuit / Overload
- Cooling by free air convection
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

■ GTIN CODE

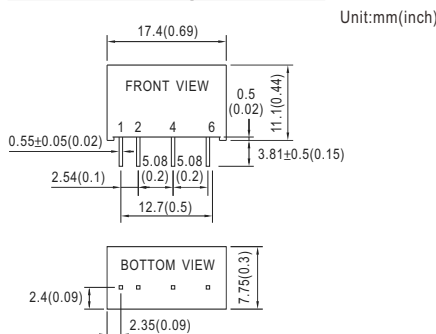
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



SPECIFICATION

| ORDER NO. | SPA01A-05 | SPA01B-05 | SPA01C-05 | SPA01A-12 | SPA01B-12 | SPA01C-12 | SPA01A-15 | SPA01B-15 | SPA01C-15 | | |
|----------------------|------------------------------|---|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----|--|
| OUTPUT | DC VOLTAGE | 5V | | | 12V | | | 15V | | | |
| | CURRENT RANGE | 20 ~ 200mA | | | 8 ~ 83mA | | | 6 ~ 67mA | | | |
| | RATED POWER | 1W | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 60mVp-p | | | 80mVp-p | | | 80mVp-p | | | |
| | LINE REGULATION Note.3 | ±0.5% | | | | | | | | | |
| | LOAD REGULATION Note.4 | ±0.5% | | | | | | | | | |
| | VOLTAGE ACCURACY | ±2.0% | | | | | | | | | |
| | SWITCHING FREQUENCY | 100KHz min. | | | | | | | | | |
| INPUT | VOLTAGE RANGE | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC | | | | | | | | | |
| | EFFICIENCY (Typ.) | 77% | 77% | 77% | 78% | 78% | 78% | 79% | 79% | 79% | |
| | DC CURRENT | Full load | A: 110mA B: 55mA C: 27mA | | | | | | | | |
| | | No load | A: 20mA B: 10mA C: 7mA | | | | | | | | |
| | FILTER | Capacitor Type | | | | | | | | | |
| PROTECTION | Fuse recommended | | | | | | | | | | |
| PROTECTION (Note. 5) | OVERLOAD | 130 ~ 200% rated output power Protection type : Recovers automatically after fault condition is removed | | | | | | | | | |
| | SHORT CIRCUIT | All output equipped with short circuit Protection type : Recovers automatically after fault condition is removed | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -40 ~ +90°C (Refer to "Derating Curve") | | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +105°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.05% / °C (0 ~ 50°C) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY | SAFETY STANDARDS | EAC TP TC 020/2011 (EAC TP TC 004 for 48Vin type only) approved | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 1.5KVDC | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | |
| | ISOLATION CAPACITANCE | 80pF max. | | | | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 Class B, FCC part 15 Class B, EAC TP TC 020 | | | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8 light industry level, criteria A, EAC TP TC 020 | | | | | | | | | |
| OTHERS | MTBF | 500Khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | |
| | DIMENSION | 17.4*7.75*11.1mm or 0.69"*0.30"*0.44" inch (L*W*H) | | | | | | | | | |
| | WEIGHT | 3g | | | | | | | | | |

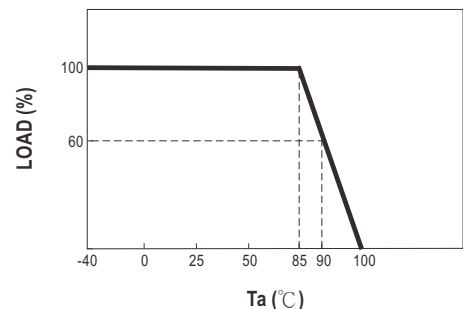
■ Mechanical Specification



■ Pin Configuration

| Pin No. | Output |
|---------|--------|
| 1 | -Vin |
| 2 | +Vin |
| 4 | +Vout |
| 6 | -Vout |

■ Derating Curve



NOTE

- 1.All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
 - 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
 - 3.Line regulation is measured from low line to high line at rated load.
 - 4.Load regulation is measured from 10% to 100% rated load.
 - 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>