



Наличие и актуальные цены на

**SKM15A-12**

<https://www.mean-well.ru/store/SKM15A-12/>



15W DC-DC Regulated Single Output Converter

SKM15 series



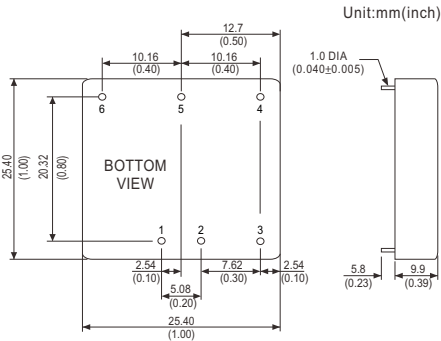
- Features :
- 1"x1" compact size
  - 2:1 wide input range
  - High efficiency up to 88%
  - 1500VDC I/O isolation
  - Built-in remote ON/OFF control
  - Built-in trimming output(±10%)
  - Built-in EMI filter
  - Protections: Short circuit / Overload / Over voltage
  - Cooling by free air convection
  - Six-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Approvals: FCC / EAC / CE / UKCA
  - 2 years warranty



SPECIFICATION

| ORDER NO.                              |                                             | SKM15A-05        | SKM15B-05                                                                                                                        | SKM15C-05 | SKM15A-12 | SKM15B-12    | SKM15C-12 | SKM15A-15 | SKM15B-15    | SKM15C-15 |       |
|----------------------------------------|---------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-------|
| OUTPUT                                 | DC VOLTAGE                                  |                  | 5V                                                                                                                               |           |           | 12V          |           |           | 15V          |           |       |
|                                        | CURRENT RANGE                               |                  | 300 ~ 3000mA                                                                                                                     |           |           | 125 ~ 1250mA |           |           | 100 ~ 1000mA |           |       |
|                                        | RATED POWER                                 |                  | 15W                                                                                                                              |           |           |              |           |           |              |           |       |
|                                        | RIPPLE & NOISE (max.) <small>Note.2</small> |                  | 50mVp-p                                                                                                                          |           |           | 60mVp-p      |           |           | 60mVp-p      |           |       |
|                                        | LINE REGULATION <small>Note.3</small>       |                  | ±0.5%                                                                                                                            |           |           |              |           |           |              |           |       |
|                                        | LOAD REGULATION <small>Note.4</small>       |                  | ±0.5%                                                                                                                            |           |           |              |           |           |              |           |       |
|                                        | VOLTAGE ACCURACY                            |                  | ±2.0%                                                                                                                            |           |           |              |           |           |              |           |       |
|                                        | SWITCHING FREQUENCY                         |                  | 400KHz typ.                                                                                                                      |           |           |              |           |           |              |           |       |
|                                        | EXTERNAL CAPACITANCE LOAD (max.)            |                  | 1000uF                                                                                                                           |           |           |              |           |           |              |           |       |
| EXTERNAL TRIM Adj. RANGE(Typ.)         |                                             | ±10%             |                                                                                                                                  |           |           |              |           |           |              |           |       |
| INPUT                                  | VOLTAGE RANGE                               |                  | A: 9 ~ 18VDC    B: 18 ~ 36VDC    C: 36 ~ 75VDC                                                                                   |           |           |              |           |           |              |           |       |
|                                        | EFFICIENCY (Typ.)                           |                  | 86%                                                                                                                              | 87%       | 86%       | 87%          | 87%       | 86%       | 88%          | 88%       | 87%   |
|                                        | DC CURRENT                                  | Full load        | 1500mA                                                                                                                           | 750mA     | 380mA     | 1500mA       | 750mA     | 380mA     | 1500mA       | 750mA     | 380mA |
|                                        |                                             | No load          | 80mA                                                                                                                             | 55mA      | 35mA      | 35mA         | 25mA      | 15mA      | 35mA         | 25mA      | 15mA  |
|                                        | FILTER                                      |                  | Pi network                                                                                                                       |           |           |              |           |           |              |           |       |
|                                        | REMOTE CONTROL                              |                  | Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short                                        |           |           |              |           |           |              |           |       |
| PROTECTION                             |                                             | Fuse recommended |                                                                                                                                  |           |           |              |           |           |              |           |       |
| PROTECTION<br><small>(Note. 5)</small> | OVER CURRENT                                |                  | 110% ~ 180% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed         |           |           |              |           |           |              |           |       |
|                                        | SHORT CIRCUIT                               |                  | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |           |           |              |           |           |              |           |       |
|                                        | OVER VOLTAGE                                |                  | 115% ~ 150% rated output voltage<br>Protection type : Clamp by diode, recovers automatically after fault condition is removed    |           |           |              |           |           |              |           |       |
|                                        |                                             |                  |                                                                                                                                  |           |           |              |           |           |              |           |       |
| ENVIRONMENT                            | WORKING TEMP.                               |                  | -40 ~ +80℃ (Refer to "Derating Curve")                                                                                           |           |           |              |           |           |              |           |       |
|                                        | WORKING HUMIDITY                            |                  | 20% ~ 90% RH non-condensing                                                                                                      |           |           |              |           |           |              |           |       |
|                                        | STORAGE TEMP., HUMIDITY                     |                  | -55 ~ +100℃, 10 ~ 95% RH                                                                                                         |           |           |              |           |           |              |           |       |
|                                        | TEMP. COEFFICIENT                           |                  | ±0.03% / °C (0 ~ 50℃)                                                                                                            |           |           |              |           |           |              |           |       |
|                                        | VIBRATION                                   |                  | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                          |           |           |              |           |           |              |           |       |
| SAFETY & EMC                           | 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℃ / 70% RH                                                                                       |           |           |              |           |           |              |           |       |
|                                        | EMC EMISSION                                |                  | Compliance to BS EN/EN55032 Class A, FCC part 15 Class A, 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                                        |                  | 400Khrs min. MIL-HDBK-217F(25℃)                                                                                                  |           |           |              |           |           |              |           |       |
|                                        | DIMENSION                                   |                  | 25.4*25.4*9.9 mm or 1**1**0.39" inch (L*W*H)                                                                                     |           |           |              |           |           |              |           |       |
|                                        | WEIGHT                                      |                  | 15g                                                                                                                              |           |           |              |           |           |              |           |       |

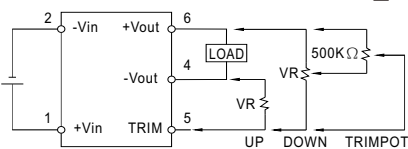
■ Mechanical Specification



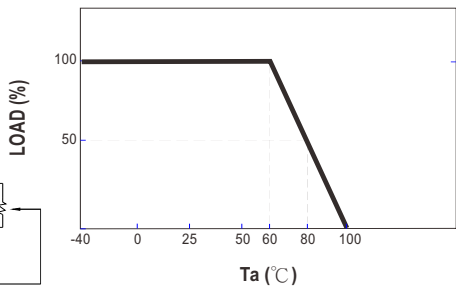
■ Pin Configuration

| Pin No. | Output | Pin No. | Output |
|---------|--------|---------|--------|
| 1       | +Vin   | 4       | -Vout  |
| 2       | -Vin   | 5       | Trim   |
| 3       | R.C.   | 6       | +Vout  |

■ External Output Trimming



■ Derating Curve



NOTE

- 1.All parameters are specified at normal input, rated load, 25℃ 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>