



- Features :

- 2:1 wide input range
- High efficiency up to 92%
- 1500VDC I/O isolation
- Built-in EMI filter
- Built-in remote ON / OFF control
- Built-in remote sense
- Trimming output  $\pm 10\%$
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Output 3.3V/9V available
- Approvals: FCC / EAC / CE / UKCA
- 2 years warranty

## GTIN CODE

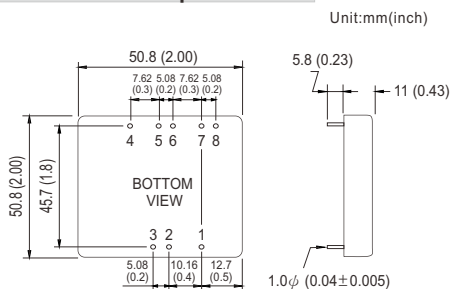
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



## SPECIFICATION

| ORDER NO.                      |                                  | SKA40A-05                                                                                                                        | SKA40B-05                                                                                       | SKA40C-05 | SKA40A-12   | SKA40B-12 | SKA40C-12 | SKA40A-15    | SKA40B-15 | SKA40C-15 |
|--------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------|-------------|-----------|-----------|--------------|-----------|-----------|
| OUTPUT                         | DC VOLTAGE                       | 5V                                                                                                                               |                                                                                                 |           | 12V         |           |           | 15V          |           |           |
|                                | CURRENT RANGE                    | 0.7 ~ 7A                                                                                                                         |                                                                                                 |           | 0.3 ~ 3.33A |           |           | 0.26 ~ 2.67A |           |           |
|                                | RATED POWER                      | 35W                                                                                                                              |                                                                                                 |           | 40W         |           |           | 40W          |           |           |
|                                | RIPPLE & NOISE (max.) Note.2     | 60mVp-p                                                                                                                          |                                                                                                 |           | 80mVp-p     |           |           | 100mVp-p     |           |           |
|                                | LINE REGULATION Note.3           | ±0.5%                                                                                                                            |                                                                                                 |           |             |           |           |              |           |           |
|                                | LOAD REGULATION Note.4           | ±0.5%                                                                                                                            |                                                                                                 |           |             |           |           |              |           |           |
|                                | VOLTAGE ACCURACY                 | ±2.0%                                                                                                                            |                                                                                                 |           |             |           |           |              |           |           |
|                                | SWITCHING FREQUENCY              | 200KHz min.                                                                                                                      |                                                                                                 |           |             |           |           |              |           |           |
|                                | 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.)                | 91%                                                                                                                              | 92%                                                                                             | 91%       | 90%         | 90%       | 88.5%     | 90%          | 90.5%     | 90%       |
|                                | DC CURRENT                       | Full load                                                                                                                        | A: 3850mA B: 1900mA C: 1000mA                                                                   |           |             |           |           |              |           |           |
|                                |                                  | No load                                                                                                                          | A: 150mA B: 100mA C: 65mA                                                                       |           |             |           |           |              |           |           |
|                                | FILTER                           | Pi network                                                                                                                       |                                                                                                 |           |             |           |           |              |           |           |
|                                | REMOTE CONTROL                   | Power ON : R.C ~ -Vin > 2.5V ~ 75VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short                                  |                                                                                                 |           |             |           |           |              |           |           |
| PROTECTION                     | Fuse recommended                 |                                                                                                                                  |                                                                                                 |           |             |           |           |              |           |           |
| PROTECTION<br>(Note. 5)        | 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                                                                                                                     | 5Vo : 7V ~ 8.95V ; 12Vo : 15V ~ 19.2V ; 15Vo : 18V ~ 23.3V Protection type : Clamp by TVS diode |           |             |           |           |              |           |           |
| ENVIRONMENT                    | WORKING TEMP.                    | -40 ~ +80°C (Refer to "Derating Curve")                                                                                          |                                                                                                 |           |             |           |           |              |           |           |
|                                | WORKING HUMIDITY                 | 20% ~ 90% RH non-condensing                                                                                                      |                                                                                                 |           |             |           |           |              |           |           |
|                                | STORAGE TEMP., HUMIDITY          | -55 ~ +105°C, 10 ~ 95% RH                                                                                                        |                                                                                                 |           |             |           |           |              |           |           |
|                                | TEMP. COEFFICIENT                | ±0.03% / °C (0 ~ 50°C)                                                                                                           |                                                                                                 |           |             |           |           |              |           |           |
|                                | 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°C / 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                         | DIMENSION                        | 50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)                                                                                    |                                                                                                 |           |             |           |           |              |           |           |
|                                | PACKING                          | 50g : 5pcs/per tube, 200pcs/40 tube/per carton                                                                                   |                                                                                                 |           |             |           |           |              |           |           |

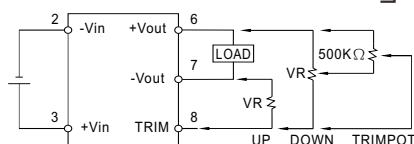
## ■ Mechanical Specification



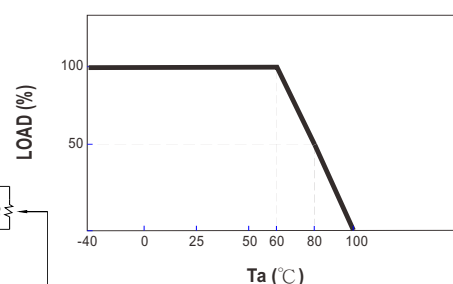
## ■ Pin Configuration

| Pin No. | Output | Pin No. | Output |
|---------|--------|---------|--------|
| 1       | R.C    | 5       | +R.S   |
| 2       | -Vin   | 6       | +Vout  |
| 3       | +Vin   | 7       | -Vout  |
| 4       | R.S    | 8       | TRIM   |

### ■ External Output Trimming



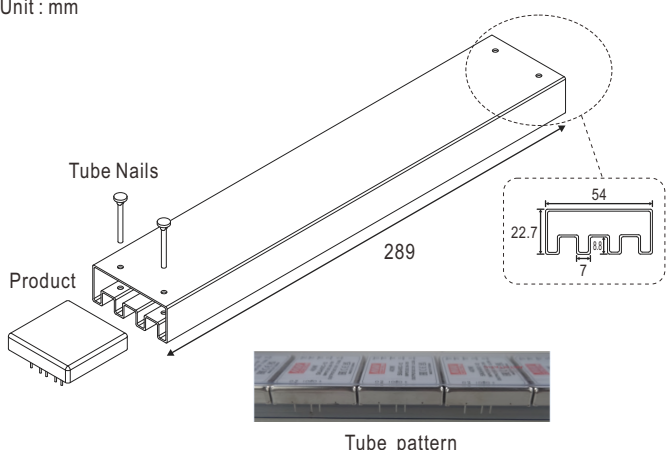
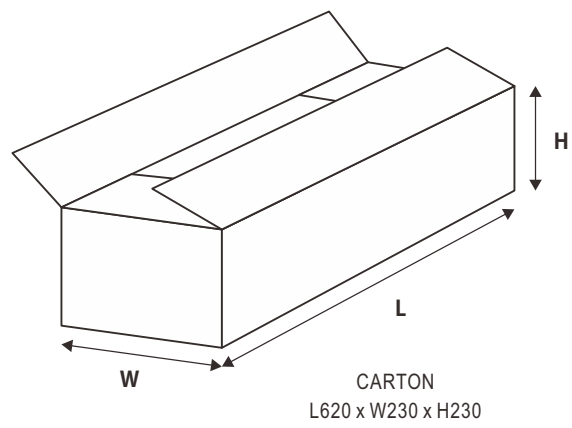
### Derating Curve



## 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>

## Packing

| Standard Tube Packing                                                                                                                                                                                                                           | MPQ<br>Per Tube<br>(PCS) | One Tube<br>G.W. | Max. Q'TY/<br>Carton(PCS) | One Carton<br>G.W. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|---------------------------|--------------------|
| <p>Unit : mm</p>  <p>Tube pattern</p>  <p>CARTON<br/>L620 x W230 x H230</p> | 5                        | 320g             | 200                       | 13.6Kg             |

## Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>