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- Universal AC input / Full range
- Optional L-Bracket and cover
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 4"×2" compact size
- · LED indicator for power on
- No load power consumption<0.3W</li>
- Operating altitude up to 4000 meters
- 3 years warranty









## **■** GTIN CODE

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

EPS-45-3.3 -C =Blank,-C; Blank=PCB only, -C=Enclosed type

## **SPECIFICATION**

| MODEL                       |   | EPS-45-3.3  | EPS-45-5    | ]   | EPS-45-7.5      | EPS-45-12         | EPS-45-15         | EPS-45-24    | EPS-45-36    | EPS-45-48    |
|-----------------------------|---|---|-------------|-----|-----------------|-------------------|-------------------|--------------|--------------|--------------|
| OUTPUT                      | DC VOLTAGE  | 3.3V  | 5V          |     | 7.5V            | 12V               | 15V               | 24V          | 36V          | 48V          |
|                             | RATED CURRENT   | 8A  | 8A          |     | 5.4A            | 3.75A             | 3A                | 1.9A         | 1.25A        | 1A           |
|                             | CURRENT RANGE   | 0 ~ 9A  | 0 ~ 9A      |     | 0 ~ 6A          | 0 ~ 4.2A          | 0 ~ 3.3A          | 0 ~ 2.1A     | 0 ~ 1.4A     | 0 ~ 1.1A     |
|                             | RATED POWER   | 26.4W   | 40W         |     | 40.5W           | 45W               | 45W               | 45.6W        | 45W          | 48W          |
|                             | PEAK LOAD(10sec.) Note.6  | 29.7W   | 45W         |     | 42W             | 50.4W             | 49.5W             | 50.4W        | 50.4W        | 52.8W        |
|                             | RIPPLE & NOISE (max.) Note.2  | 80mVp-p   | 80mVp-p     |     | 100mVp-p        | 120mVp-p          | 150mVp-p          | 240mVp-p     | 280mVp-p     | 300mVp-p     |
|                             | VOLTAGE ADJ. RANGE  | 3.1 ~ 3.6V  | 4.75 ~ 5.5V |     | 7.13 ~ 8.25V    | 10.8 ~ 13.5V      | 13.5 ~ 16.5V      | 21.6 ~ 27V   | 32.4 ~ 39.6V | 43.2 ~ 52.8\ |
|                             | VOLTAGE TOLERANCE Note.3  | ±3.0%   | ±2.0%       |     | $\pm 2.0\%$     | ±2.0%             | ±2.0%             | ±1.0%        | ±1.0%        | ±1.0%        |
|                             | LINE REGULATION   | ±0.5%   | ±0.5%       |     | $\pm 0.5\%$     | ±0.5%             | ±0.5%             | ±0.5%        | ±0.5%        | ±0.5%        |
|                             | LOAD REGULATION   | ±2.0%   | ±1.0%       |     | ±1.0%           | ±1.0%             | ±1.0%             | ±1.0%        | ±1.0%        | ±1.0%        |
|                             | SETUP, RISE TIME  | 1000ms, 50ms/230VAC 2000ms, 50ms/115VAC at full load  |             |     |                 |                   |                   |              |              |              |
|                             | HOLD UP TIME (Typ.)   | 50ms/230VAC 16ms/115VAC at full load  |             |     |                 |                   |                   |              |              |              |
| INPUT                       | VOLTAGE RANGE Note.5  | 90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/N(+), AC/L(-)]                             |             |     |                 |                   |                   |              |              |              |
|                             | FREQUENCY RANGE   | 47 ~ 63Hz   |             |     |                 |                   |                   |              |              |              |
|                             | EFFICIENCY (Typ.)   | 80%   | 82%         |     | 84%             | 87%               | 88%               | 89%          | 89%          | 90%          |
|                             | AC CURRENT (Typ.)   | 1.8A/115VAC 1 A/230VAC  |             |     |                 |                   |                   |              |              |              |
|                             | INRUSH CURRENT (Typ.)   | COLD START 60A/230VAC   |             |     |                 |                   |                   |              |              |              |
|                             | LEAKAGE CURRENT   | <2mA/240VAC   |             |     |                 |                   |                   |              |              |              |
| PROTECTION                  | OVER LOAD  115 ~ 160% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed   |   |             |     |                 |                   |                   |              |              |              |
|                             |   |   |             |     |                 |                   |                   |              |              |              |
|                             |   | 3.7 ~ 4.45V   | 5.6 ~ 6.75V |     | 8.63 ~ 10.1V    | 13.8 ~ 16.2V      |                   | 27.6 ~ 32.4V | 39.7 ~ 46.8V | 53.3 ~ 64.8  |
|                             | OVER VOLTAGE  | Protection type   | : Shut down | o/p | voltage, re-pov | ver on to recover |                   |              |              |              |
| ENVIRONMENT                 | WORKING TEMP.   | -30 ~ +70°C (Refer to output load derating curve)   |             |     |                 |                   |                   |              |              |              |
|                             | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |             |     |                 |                   |                   |              |              |              |
|                             | STORAGE TEMP., HUMIDITY   | -40 ~ +85°C, 10 ~ 95% RH  |             |     |                 |                   |                   |              |              |              |
|                             | TEMP. COEFFICIENT   | ±0.03%/°C (0~50°C)  |             |     |                 |                   |                   |              |              |              |
|                             | OPERATING ALTITUDE Note.7   | 4000 meters   |             |     |                 |                   |                   |              |              |              |
|                             | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes   |             |     |                 |                   |                   |              |              |              |
| SAFETY &<br>EMC<br>(Note 4) | SAFETY STANDARDS  | UL62368-1, TUV BS EN/EN62368-1, CCC GB4943.1, EAC TP TC 004 approved  |             |     |                 |                   |                   |              |              |              |
|                             | WITHSTAND VOLTAGE   | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC   |             |     |                 |                   |                   |              |              |              |
|                             | ISOLATION RESISTANCE  | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH   |             |     |                 |                   |                   |              |              |              |
|                             | EMC EMISSION  | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, GB9254.1 Class B,GB17625 Class A,EAC TP TC 0 |             |     |                 |                   |                   |              |              |              |
|                             | EMC IMMUNITY  | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, heavy industry level, EAC TP TC 020                  |             |     |                 |                   |                   |              |              |              |
| OTHERS                      | MTBF  | 2981.8K hrs min. Telcordia SR-332 (Bellcore) ; 652.4K hrs min. MIL-HDBK-217F (25°C)                               |             |     |                 |                   |                   |              |              |              |
|                             | DIMENSION   | PCB:101.6*50.8*29mm (L*W*H); with optional CASE:103.4*62*37mm (L*W*H)   |             |     |                 |                   |                   |              |              |              |
|                             | PACKING   |   |             |     | •               |                   | .3Kg; 45pcs/ 14.5 | 5Ka/0 63CUFT |              |              |
| NOTE                        | All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.  Tolerance : includes set up tolerance, line regulation and load regulation.  Derating may be needed under low input voltage. Please check the static characteristics for more details.  33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.  The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)  The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Froduct Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx |   |             |     |                 |                   |                   |              |              |              |









