



## 75W Single Output with PFC Function

## ELP-75 series



## ■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- No load power consumption<0.5W
- 3 years warranty

User's Manual



## ■ GTIN CODE

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

UL62368-1 BS EN/EN62368-1 IEC62368-1 TPTC004

## SPECIFICATION

| MODEL                 | ELP-75-3.3  | ELP-75-5  | ELP-75-12   | ELP-75-15    | ELP-75-24      | ELP-75-36    | ELP-75-48    |              |
|-----------------------|---|---|-------------|--------------|----------------|--------------|--------------|--------------|
| OUTPUT                | DC VOLTAGE  | 3.3V  | 5V          | 12V          | 15V            | 24V          | 36V          | 48V          |
|                       | RATED CURRENT   | 15A   | 15A         | 6.25A        | 5A             | 3.15A        | 2.1A         | 1.6A         |
|                       | CURRENT RANGE   | 0 ~ 15A   | 0 ~ 15A     | 0 ~ 6.25A    | 0 ~ 5A         | 0 ~ 3.15A    | 0 ~ 2.1A     | 0 ~ 1.6A     |
|                       | RATED POWER   | 49.5W   | 75W         | 75W          | 75W            | 75.6W        | 75.6W        | 76.8W        |
|                       | RIPPLE & NOISE (max.) Note.2  | 80mVp-p   | 80mVp-p     | 120mVp-p     | 150mVp-p       | 240mVp-p     | 280mVp-p     | 300mVp-p     |
|                       | VOLTAGE ADJ. RANGE  | 3 ~ 3.6V  | 4.75 ~ 5.5V | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V | 32.4 ~ 39.6V | 43.2 ~ 52.8V |
|                       | VOLTAGE TOLERANCE Note.3  | ±3.0%   | ±2.0%       | ±2.0%        | ±2.0%          | ±1.0%        | ±1.0%        | ±1.0%        |
|                       | LINE REGULATION   | ±0.5%   | ±0.5%       | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        | ±0.5%        |
|                       | LOAD REGULATION   | ±2.0%   | ±1.5%       | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        | ±1.0%        |
|                       | SETUP, RISE TIME  | 2500ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load  |             |              |                |              |              |              |
| HOLD UP TIME (Typ.)   | 20ms/230VAC 20ms/115VAC at full load  |   |             |              |                |              |              |              |
| INPUT                 | VOLTAGE RANGE Note.6  | 90 ~ 264VAC 127 ~ 370VDC  |             |              |                |              |              |              |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |             |              |                |              |              |              |
|                       | POWER FACTOR (Typ.) Note.5  | 3.3V: PF>0.91/230VAC 5V~48V: PF>0.95/230VAC PF>0.98/115VAC at full load   |             |              |                |              |              |              |
|                       | EFFICIENCY (Typ.)   | 80%   | 82%         | 89%          | 90%            | 90%          | 90%          | 90%          |
|                       | AC CURRENT (Typ.)   | 1.8A/115VAC 1A/230VAC   |             |              |                |              |              |              |
|                       | INRUSH CURRENT (Typ.)   | COLD START 60A/230VAC   |             |              |                |              |              |              |
|                       | LEAKAGE CURRENT   | <1mA/240VAC   |             |              |                |              |              |              |
| PROTECTION            | OVER LOAD   | 105 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |             |              |                |              |              |              |
|                       | OVER VOLTAGE  | 3.7 ~ 4.45V   | 5.6 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 39.7 ~ 46.8V | 53.3 ~ 64.8V |
| ENVIRONMENT           | WORKING TEMP.   | -30 ~ +70°C (Refer to "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)   |             |              |                |              |              |              |
|                       | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes   |             |              |                |              |              |              |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS  | UL62368-1, TUV BS EN/EN62368-1, 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/ 500VDC / 25°C/ 70% RH   |             |              |                |              |              |              |
|                       | EMC EMISSION  | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020                                      |             |              |                |              |              |              |
| OTHERS                | EMC IMMUNITY  | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN55024, heavy industry level, EAC TP TC 020                        |             |              |                |              |              |              |
|                       | MTBF  | 2229.2K hrs min. Telcordia SR-332 (Bellcore) ; 345.3K hrs min. MIL-HDBK-217F (25°C)                                     |             |              |                |              |              |              |
|                       | DIMENSION   | PCB:175*60*27mm (L*W*H) with optional CASE:195*68.5*33mm (L*W*H)  |             |              |                |              |              |              |
|                       | PACKING   | PCB:0.25Kg; 48pcs/13Kg/0.96CUFT with optional CASE:0.54Kg; 25pcs/14.5Kg/0.7CUFT   |             |              |                |              |              |              |
| NOTE                  | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF &amp; 47 μF parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. 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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</li> <li>5. 3.3V PF&gt;0.92/230VAC, others PF&gt;0.95/230VAC.</li> <li>6. Derating may be needed under low input voltage. Please check the derating curve for more details.</li> <li>7. 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).</li> </ol> ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |   |             |              |                |              |              |              |

