



### ■ Features :

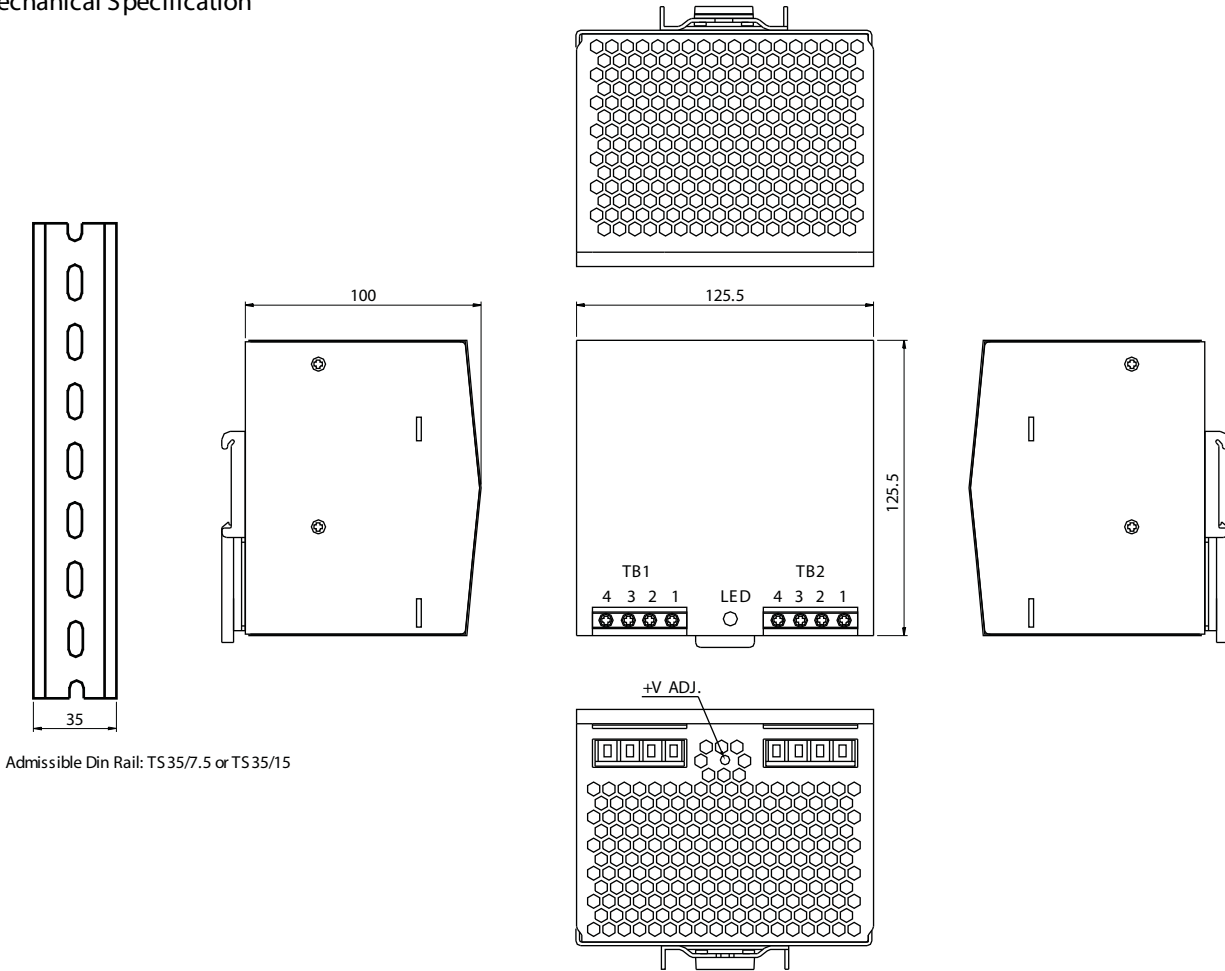
- Three-Phase AC 340 ~ 550V wide range input
- High efficiency 89% and low dissipation
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty



### SPECIFICATION

| MODEL                  | PST-24024  | PST-24048  |          |
|------------------------|--|--|----------|
| OUTPUT                 | DC VOLTAGE   | 24V  | 48V      |
|                        | RATED CURRENT  | 10A  | 5A       |
|                        | CURRENT RANGE  | 0 ~ 10A  | 0 ~ 5A   |
|                        | RATED POWER  | 240W   | 240W     |
|                        | RIPPLE & NOISE (max.) Note.2   | 80mVp-p  | 80mVp-p  |
|                        | VOLTAGE ADJ. RANGE   | 24 ~ 28V   | 48 ~ 55V |
|                        | VOLTAGE TOLERANCE Note.3   | ±1.0%  | ±1.0%    |
|                        | LINE REGULATION  | ±0.5%  | ±0.5%    |
|                        | LOAD REGULATION  | ±0.5%  | ±0.5%    |
| SETUP, RISE, HOLD TIME | 1200ms, 40ms, 20ms/400VAC      800ms, 40ms, 40ms/500VAC at full load   |  |          |
| INPUT                  | VOLTAGE RANGE  | Three-Phase 340 ~ 550VAC      480 ~ 780VDC   |          |
|                        | FREQUENCY RANGE  | 47 ~ 63Hz  |          |
|                        | EFFICIENCY (Typ.)  | 89%  |          |
|                        | AC CURRENT   | 0.95A/400VAC      0.75A/500VAC   |          |
|                        | INRUSH CURRENT (max.)  | COLD START 50A   |          |
|                        | LEAKAGE CURRENT  | <3.5mA/ 530VAC   |          |
| PROTECTION             | OVER LOAD  | 105 ~ 150% rated output power<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed              |          |
|                        | OVER VOLTAGE   | 30 ~ 36V   | 59 ~ 66V |
|                        | OVER TEMPERATURE   | 100°C ±5°C (TSW) Detect on heatsink of power switch<br>Protection type : Shut down o/p voltage, recovers automatically after temperature goes down |          |
| ENVIRONMENT            | WORKING TEMP.  | -20 ~ +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)   |          |
|                        | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes   |          |
| SAFETY & EMC (Note 4)  | SAFETY STANDARDS   | UL508, EN60950-1 Approved, UL60950-1   |          |
|                        | WITHSTAND VOLTAGE  | I/P-O/P:3KVAC    I/P-FG:1.5KVAC    O/P-FG:0.5KVAC  |          |
|                        | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC   |          |
|                        | EMI CONDUCTION & RADIATION   | Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B  |          |
| OTHERS                 | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,9,ENV50204, EN61204-3, EN61000-6-2 (EN50082-2) Heavy industry level, criteria                                  |          |
|                        | MTBF   | 114.6Khrs min.    MIL-HDBK-217F (25°C)   |          |
|                        | DIMENSION  | 125.5*125.2*100mm (W*H*D)  |          |
|                        | PACKING  | 1.3Kg; 12pcs/16.6Kg/1.34CUFT   |          |
| NOTE                   | 1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.<br>5. Dual phase operation: derating of 20% is required. |  |          |

### Mechanical Specification



Admissible Din Rail: TS35/7.5 or TS35/15

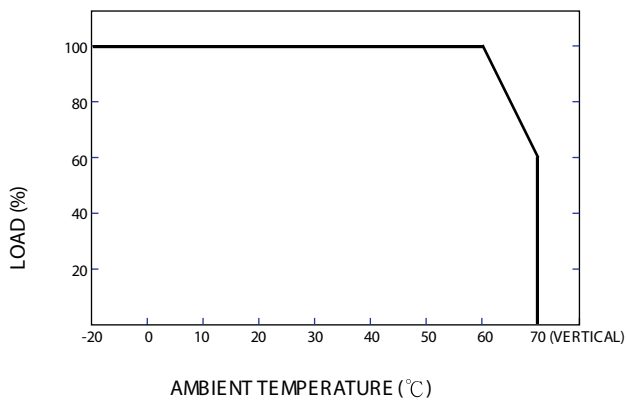
TB1 Terminal Pin. No Assignment

| Pin No. | Assignment  |
|---------|-------------|
| 1       | FG $\oplus$ |
| 2       | AC/L3       |
| 3       | AC/L2       |
| 4       | AC/L1       |

TB2 Terminal Pin. No Assignment

| Pin No. | Assignment   |
|---------|--------------|
| 1,2     | DC OUTPUT +V |
| 3,4     | DC OUTPUT -V |

### Derating Curve



### Static Characteristics

