|              | PS-C480 S<br>Specifications  | S  | <ul> <li>Features:</li> <li>High efficiency 94% and low power dissipation</li> <li>150% peak load capability</li> <li>Built-in active PFC function, PF&gt;0.94</li> <li>Protections: Short Circuit / Overload / Over Voltage /<br/>Overtemperature</li> <li>Cooling by free air convection</li> <li>Built-in constant current limiting circuit</li> <li>DIN rail mountable</li> <li>UL 508(industrial control equipment) approved</li> <li>EN61000-6-2(EN50082-2) industrial immunity level</li> <li>Built-in DC OK relay contact</li> <li>100% full load burn-in test</li> </ul> |  |  |  |  |
|--------------|--|--|---|--|--|--|--|
| OUTPUT       | Cat. No.   | PS-C48024  | • 3 year warra  | PS-C48048  |  |  |  |
|              | DC VOLTAGE<br>RATED CURRENT<br>CURRENT RANGE<br>RATED POWER<br>PEAK CURRENT<br>PEAK POWER  |  | ax. and the average   | 48V<br>10A<br>$0 \sim 10A$<br>480W<br>15A<br>e output power should not exceed the rate power<br>100mVa = 1                                     |  |  |  |
|              | RIPPLE & NOISE (max)<br>VOLTAGE ADJ. RANGE<br>VOLTAGE TOLERANCE<br>LINE REGULATION   | 100mVp-p<br>Ripple & noise are measured at 20N<br>24 ~ 28V<br>±1.2%<br>Tolerance: includes set up tolerand<br>±0.5%  |   | 120mVp-p<br>a 12 twisted pair-wire terminated with a $0.1\mu$ F & $47\mu$ F parallel capacitor.<br>48 ~ 55V<br>±1.0%<br>d regulation.<br>±0.5% |  |  |  |
| INPUT        | LOAD REGULATION<br>SETUP, RISE TIME<br>HOLD UP TIME (Typ.)   | ±1.0%<br>1500ms, 150ms / 230VA0<br>14ms / 230VAC at full loa   |   | ±1.0%<br>Oms / 115VAC at full load   |  |  |  |
| PROTECTION   | VOLTAGE RANGE<br>FREQUENCY RANGE<br>POWER FACTOR (Typ.)<br>EFFICIENCY (Typ.)<br>AC CURRENT (Typ.)<br>INRUSH CURRENT (Typ.)<br>LEAKAGE CURRENT            | Derating may be needed under low $47 \sim 63 Hz$   | 115VAC at full load<br>230VAC   | check the derating curve for more detail   |  |  |  |
|              | OVERLOAD<br>OVERVOLTAGE<br>OVERTEMPERATURE   | Normally works within 11 down overvoltage with au  | to-recovery<br>stant current limitir<br>seconds<br>Itage with auto-recovery<br>on heat sink of po   | wer switch)  |  |  |  |
| ENVIRONMENT  | DC OK RELAY CONTACT RATINGS (max.)   | 60VDC / 0.3A; 30VDC / 1A   | - · ·   |  |  |  |  |
|              | Working Temp.<br>Working Humidity<br>Storage Temp., Humidity<br>Temp. Coefficient  | $\begin{array}{l} -25 \sim +70^{\circ} C \; (\text{Refer to out} \\ \text{Installation clearances: 40mm on } \\ \text{permanently with full power. In ca.} \\ 20 \sim 95\% \; \text{RH non-conder} \\ -40 \sim +85^{\circ} C, \; 10 \sim 95\% \; \text{F} \\ \pm 0.03\% \; / \; ^{\circ} C \; (0 \sim 50^{\circ} C) \end{array}$ | put load derating c<br>op, 20mm on the bottom<br>se the adjacent device is<br>nsing<br>RH   | surve)<br>, 5mm on the left and right side are recommended when loaded<br>a heat source, 15mm clearance is recommended.                        |  |  |  |
| SAFETY & EMC | VIBRATION<br>MOUNTING<br>SAFETY STANDARDS<br>WITHSTAND VOLTAGE<br>ISOLATION RESISTANCE<br>EMI CONDUCTION & RADIATION<br>HARMONIC CURRENT<br>EMS IMMUNITY | $I/P-O/P, I/P-FG, O/P-FG: \ge$<br>Compliance to EN55022 (<br>Compliance to EN61000-3   | 2-6<br>1.5KVAC 0/P-F6<br>100M 0hms/500V/<br>CISPR22) Class B<br>3-2,-3<br>1-2,3,4,5,6,8,11; E   | G: 0.5KVAC 0/P-DC 0K: 0.5KVAC<br>DC (25°C; 70% RH)<br>NV50204; EN55024; EN61000-6-2; (EN50082-2),  |  |  |  |
| OTHERS       | MTBF<br>Dimension<br>Packing   | re-confirmed that it still meets EM<br>112.9K hrs min. MIL-HE<br>85.5x125.2x128.5mm (W<br>1.6Kg; 8pcs / 13.8Kg / 0.9   | C directives.<br>DBK-217K (25°C)<br>xHxD)<br>9CUFT  | stalled into a final equipment. The final equipment must be  |  |  |  |

## **Mechanical Specification**

|          |                      |          |        |                   |          |       |                   | H |     | 128.5 |   |
|----------|----------------------|----------|--------|-------------------|----------|-------|-------------------|---|-----|-------|---|
|          |                      |          |        |                   |          | 1     | DC OK             |   | d O |       |   |
| Terminal | Pin No. Assignment ( | TB1) Ter | minal  | Pin No. Assignmer | nt (TB2) |       |                   |   | /   |       | L |
| Pin No.  | Assignment           | Pi       | in No. | Assignment        |          | 5     |                   |   |     |       |   |
| 1        | FG 🖨                 |          | 1,2    | DC OUTPUT +V      |          | 125.2 |                   |   | Ø   |       |   |
| 2        | AC/N                 |          | 3,4    | DC OUTPUT -V      |          |       |                   |   |     |       | 4 |
| 3        | AC/L                 |          | 5,6    | Relay Contact     |          |       | O DCOK<br>O*+VADJ | ' | \   |       |   |
|          |                      |          | 7,8    | NC                |          |       | 3 5 -             |   |     |       |   |
|          |                      |          |        |                   |          |       |                   |   | (   |       | Ľ |
|          |                      |          |        |                   |          |       | 85.5              |   |     |       |   |

## **DC OK Relay Contact**

-25

20 30

AMBIENT TEMPERATURE (°C)

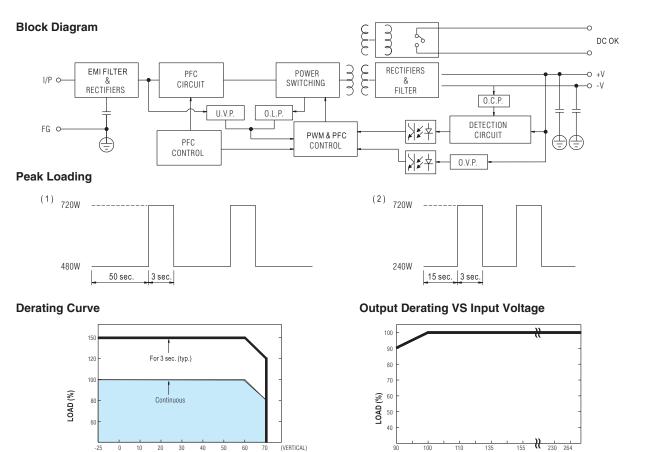
10

40 50 60

70

(VERTICAL)

| Contact Close          | When the output voltage reaches the adjusted output voltage. |
|------------------------|--|
| Contact Open           | When the output voltage drop below 90% output voltage.       |
| Contact Ratings (max.) | 30V/1A resistive load  |



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

INPUT VOLTAGE (V) 60Hz