

Panel Mount Power Supply

24V 100W 1 Phase

PMC-24V100W1AA



PMC-24V100W1AA

100Watts

Total Power: 100Watts
Input Voltage: 85-264Vac
of Output: Single

| Model number | PMC-24V100W1AA |
|---|--|
| Reference no. | EOE11010120 |
| OUTPUT (DC) | |
| Output power | 100W |
| Output voltage range | 22 - 28V |
| Output current | 4.17A (100W max.) |
| PARD (20MHz) | < 150mVpp (@ nominal values) |
| Start-up time | < 1000ms @ 100% load (25°C) and typical line input |
| Hold-up time | > 15ms @ 115Vac, > 90ms @ 230Vac with 100W load (25°C) |
| Rise time | < 30ms @ 100% load (25°C) |
| Line regulation | < 0.5% typical (@ 85 - 264Vac input, 100% load) |
| Load regulation | < 1% typical (@ 85 - 264Vac input, 0 to 100% load) |
| INPUT (AC) | |
| Input voltage range | 85 - 264Vac; 100 - 375Vdc |
| Input frequency | 47 - 63Hz |
| Max. input current | 3.0A max. (2.0A max. @ 115Vac, 1.1A max. @ 230Vac) |
| Inrush current limitation I ² t (+25°C) typ. | < 50A @ 115Vac, 100A @ 230Vac (no damage, all input devices must be within their I ² t ratings) |
| Efficiency | > 86% (typical) |
| Leakage current | < 1mA @ 240Vac |

| MECHANICAL DESIGN | |
|--------------------------|-------------------------------------|
| Case cover | Aluminium (AL1100) |
| Dimensions (L x W x H) | 158mm x 97mm x 38mm |
| Unit weight / box | 0.410kg |
| MTBF | > 700,000 hrs |
| Noise | Sound pressure level (SPL) < 40dBA |
| Cooling | Convection |
| Input / output terminal | Terminal block 7 pin rated 300V/20A |
| Input / output wire | AWG22-14 |
| Shock proof | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |

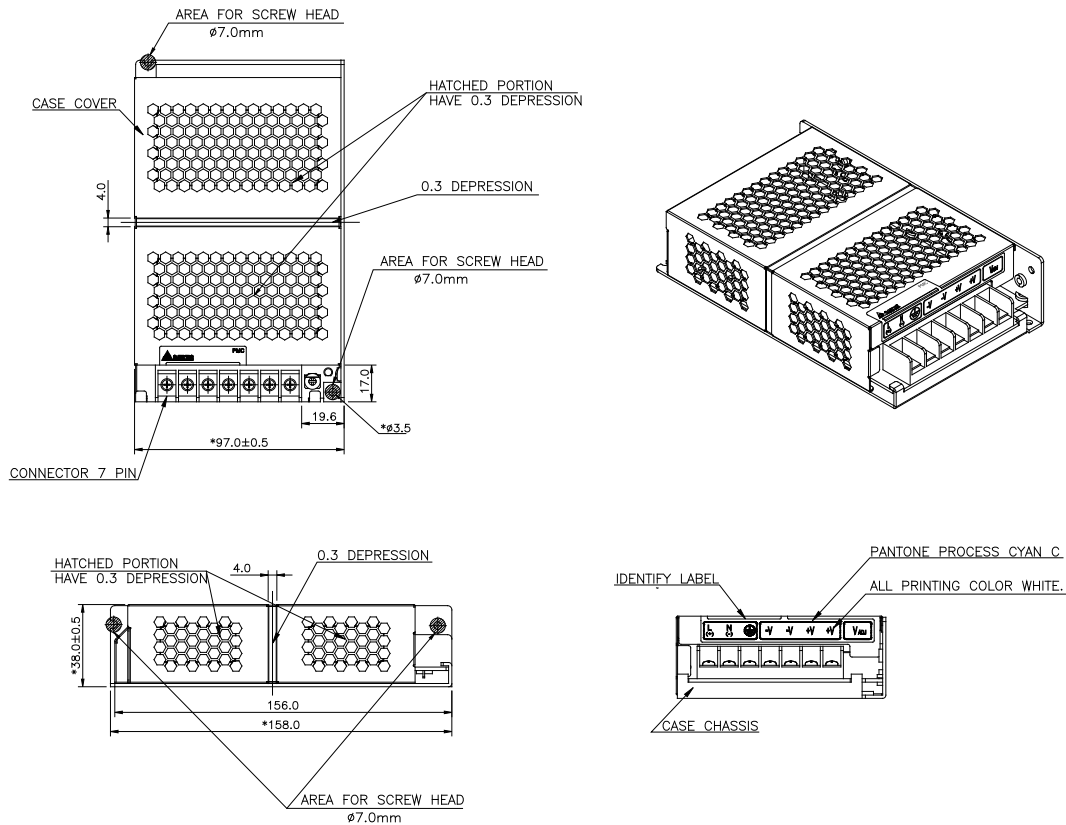
Special Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overvoltage protection
- Overload protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Expected life time: 10 years
- 2 years warranty
- RoHs compliant



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MECHANICAL DRAWING



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SAFETY / ENVIRONMENTAL

| | |
|-----------------------|---|
| EMC / Emissions | FCC Title 47, Class B/EN55022;CISPR22, Class B |
| Immunity | EN 61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8 or IEC61000-4-12 or IEEE C62.41; EN61000-3-2, 1994 |
| Safety standard | UR/cUR recognized to UL60950-1 and CSA C22.2 No.60950-1; CB test certificate and report to IEC60950-1; CE (EMC and low voltage directive), NEMKO |
| Voltage dips | Conform to EN61000-4-11 |
| Galvanic isolation | Input to output: 3 KVac; Input to ground: 1.5 KVac; Output to ground: 0.5 KVac |
| Operating temperature | -10°C to +70°C * |
| Storage temperature | -25°C to +85°C |
| Operating humidity | < 95% RH non-condensing |
| Note (*) | * Operation to 70°C possible with a linear derating to half power from 50°C to 70°C |