



**Features**

- Single or Two Phase Ultra Wide Input Range 180~550VAC
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Built-in DC OK Contact
- Built-in Constant Current Limiting Circuit
- Three Years Warranty

**Specification**

| Product name                     | DPS1-WI-120W-D12-02A(H)  | DPS1-WI-120W-D24-02A(H) | DPS1-WI-120W-D48-02A(H) |
|----------------------------------|--|-------------------------|-------------------------|
| <b>Input Parameter</b>           |  |                         |                         |
| Input voltage range              | 180 ~ 550VAC 254 ~ 780VDC  |                         |                         |
| Input frequency range            | 47...63Hz  |                         |                         |
| Input Current                    | 0.4A/400Vac<br>1.2A/230Vac   |                         |                         |
| Impulse current                  | COLD START 50A   |                         |                         |
| Power consumption                | 3W   |                         |                         |
| Connection mode                  | Terminal blocks  |                         |                         |
| <b>Output Parameter</b>          |  |                         |                         |
| Output efficiency                | 89.5%/400Vac   | 91.0%/400Vac            | 92.0%/400Vac            |
| Output rated voltage             | 12V  | 24V                     | 48V                     |
| Range of output voltage          | 12~15V   | 24~29V                  | 48~58V                  |
| Output rated current             | 10A  | 5A                      | 2.5A                    |
| Rated power                      | 120W   |                         |                         |
| Voltage ripple (20MHz)           | 120 mVp-p  | 120 mVp-p               | 150 mVp-p               |
| Setup, Rise time                 | 1000ms, 70ms /400VAC at full load<br>2000ms, 70ms /230VAC at full load |                         |                         |
| Line regulation                  | ±0.5%  |                         |                         |
| Load regulation                  | ±0.5%  |                         |                         |
| Leakage current                  | <3.5mA / 530Vac  |                         |                         |
| Coefficient of temperature drift | ±0.03%/°C(0~50°C)  |                         |                         |
| Power-down hold time             | 18ms /400VAC at full load<br>18ms /230VAC at full load                 |                         |                         |
| Switching frequency              | 50Khz~80Khz  |                         |                         |
| Connection mode                  | Terminal blocks  |                         |                         |

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|--------------------------------|--|-------------------------|-------------------------|
| <b>Mechanical Parameter</b>    |  |                         |                         |
| Size (L X W X D)               | 40x113x125mm   |                         |                         |
| Weight                         | 0.65kg   |                         |                         |
| Shell material                 | Metal  |                         |                         |
| DC light                       | OK   |                         |                         |
| DC OK contact                  | 30VDC 1A resistive load  |                         |                         |
| <b>Environmental Parameter</b> |  |                         |                         |
| Working temperature            | -25 ~ +70 °C (Refer to "Derating Curve")   |                         |                         |
| Storage temperature            | -40°C ~ + 85°C   |                         |                         |
| Storage humidity               | 10...95%RH non-condensing  |                         |                         |
| Working humidity               | 20 ~ 95% RH non-condensing   |                         |                         |
| Vibration test                 | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y Z axes; Mounting clip: Compliance to IEC60068-2-6.                 |                         |                         |
| Operational altitude           | 2000m  |                         |                         |
| <b>Security Parameter</b>      |  |                         |                         |
| Overcurrent protection range   | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed |                         |                         |
| Overvoltage protection         | 15~17V   | 29~33V                  | 58~65V                  |
|                                | Protection type : Shut down o/p voltage, re-power on to recover  |                         |                         |
| Overheat protection            | Shut down o/p voltage, recovers automatically after temperature goes down  |                         |                         |
| Short circuit protection       | Self-recovery  |                         |                         |
| Safety standard                | UL61010-1, UL61010-2-201, BS EN/EN62368-1  |                         |                         |
| Mean Time between failures     | 1600K hrs min. Telcordia SR-332 (Bellcore)   |                         |                         |

**Dimensional Drawing**

