DIN30W series

30W Din Rail Power Supply





■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
 - Cooling by free air convection
 - Isolation class II
 - Can be installed on DIN Rail TS-35/7 or 15



| ELECTRICAL SPECIFICATION | | | |
|-----------------------------------|-----------------------------------|----------------------|----------------------|
| MODEL | DIN30W12 | DIN30W15 | DIN30W24 |
| ОUТРUТ | | | |
| Rated Voltage | 12V | 15V | 24V |
| Rated Current | 2.5A | 2.0A | 1.25A |
| Current Range | 0 ÷ 2.5A | 0 ÷ 2.0A | 0 ÷ 1.25A |
| Rated Power | 30W | 30W | 30W |
| No Output Voltage (max.) | 12.6V | 16V | 25.2V |
| Voltage Adjustment Range [6] | 10.8 – 13.6V | 13.5 – 16.5V | 22 – 28V |
| Line Reglation | ± 1% | | |
| Load Reglation | ± 2% | | |
| Voltage Tolerance [3] | ± 5% | | |
| Ripple & Noise (max.) [2] | 240mV _{P-P} | 240mV _{P-P} | 320mV _{P-P} |
| Setup, Rise Time [4] | 500ms, 60ms / 230VAC at full load | | |
| Hold up Time (typ., at full load) | 20ms / 230VAC | 30ms / 230VAC | 30ms / 230VAC |

| INPUT | | | | | | |
|-------------------------------------|---|-----|-----|-----|-----|-----|
| Voltage Range | 180 ÷ 264VAC | | | | | |
| Frequency Range | 47 ÷ 63Hz | | | | | |
| Power Factor (typ.) | PF > 0.4 / 230VAC pod pełnym obciążeniem | | | | | |
| Efficiency (typ.) | 84% 85% | | 85% | | | |
| AC current (typ.) | 0.45A / 230VAC | | | | | |
| Inrush current (max.) | 28A / 230VAC; T _{WIDTH} (50% peak) = 550μs | | | | | |
| Max. No. Of PSU on Circuit | B10 | B16 | C10 | C16 | D10 | D16 |
| Breaker | 10 | 16 | 10 | 16 | 21 | 34 |
| No Load Power Consumption (max.) | < 0.5W | | | | | |

DIN30W-spec-EN-R3 04.01.2021 1/3

DIN30W series





| PROTECTIONS | | | | | |
|------------------|---|--|--------|--|--|
| Over Current | Range: 120 ÷ 210% | | | | |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. | | | | |
| Short Circuit | Type: hiccup mode. Recovers automatically after fault condition is removed. | | | | |
| Over Voltage | 18-23V | 24-30V | 36-45V | | |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. | | | | |
| Over Temperature | Range: NTC detect | | | | |
| | Type: shut down ou | tput voltage. Re-power on to recovery. | | | |

| WORKING ENVIRONMENT | |
|-------------------------------------|---|
| Working Temperature | -20°C ÷ +50°C |
| Working Humidity | 45 ÷ 85% RH non-condensing |
| Storage Temperature and Humidity | -30°C ÷ +70°C, 10 ÷ 95% RH non-condensing |

| SAFETY AND EMC REGULATIONS | | | |
|----------------------------|--|--|--|
| Safety Standards | Compliance to EN62368-1 | | |
| Withstand Voltage | IN/OUT: 3.75kVAC | | |
| EMC Emission | Compliance to EN55032 | | |
| EMC Immunity | Compliance to EN55035 | | |
| Harmonic Current | Compliance to EN 61000-3-3; EN 61000-3-2 | | |

| OTHERS | | | | |
|--------------------|------------------------------------|--|--------------------------|--|
| Dimensions | 62.5 x 93 x 56mm (L x W x H) | | | |
| Weight and Packing | 0.210kg; 50pcs./box; weiht box and | 0.210kg; 50pcs./box; weiht box and dimensions: 11kg; 37.05 x 23.6 x 33.5cm | | |
| EAN Code | 5 9 0 2 1 3 5 1 3 7 9 2 5 | 5 19 01 8 8 5 12 0 0 4 6 0 | 5 9 02 1 3 5 1 3 7 9 3 2 | |

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
- 3. Tolerance includes set up tolerance, line regulation and load regulation.
- 4. Setup and rise time is measured from 0 to 90% rated output voltage.
- 5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

6. By built-in potentiometer.

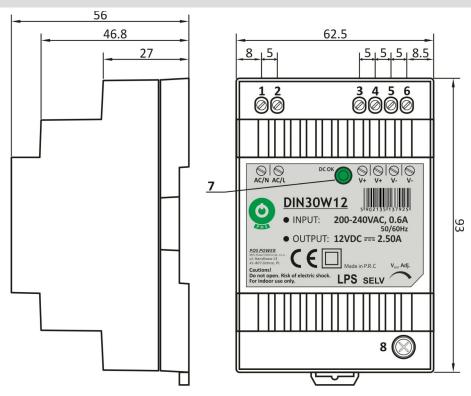
DIN30W-spec-EN-R3 04.01.2021 2/3

DIN30W series

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MECHANICAL SPECIFICATION



| | PIN ASSIGNMENT | | | | | |
|-----|----------------|-----|-----------------------------|--|--|--|
| No. | Assignment | No. | Assignment | | | |
| 1 | Input: AC/N | 3,4 | Output: U _{OUT} + | | | |
| 2 | Input: AC/L | 5,6 | Output: U _{OUT} - | | | |
| | | 7 | LED indication for power on | | | |
| | | 8 | U_{OUT} adjustment | | | |

DIN30W-spec-EN-R3 04.01.2021 3/3