

HiTRON

UNIVERSAL AC INPUT AC-DC INDUSTRIAL DIN-RAIL SINGLE OUTPUT 30 WATTS SWITCHING MODE POWER SUPPLIES HID35 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET UNIVERSAL SAFETY STANDARD AND INDUSTRIAL UL 508
- INDUSTRIAL POWER SUPPLIES FOR SNAP-ON MOUNTING ON DIN-RAILS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac.
Input Connector: M-T plug connector.
Input Frequency: 47-63Hz.
Inrush Current: $\leq 30.6A$ (rms) @230Vac.
Input Current: 0.51A @115Vac, 0.28A @230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR EN 55022 & FCC B.
No Load Operation: No damage.
Hold-up Time: 18.2ms @115Vac/ 69.6ms @230Vac.
Earth Leakage: Less than 0.41mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typ. 30W continuous.
Output Connector: M-T plug connector.
Line Regulation: Typ. 0.1%.
Load Regulation: Vary with output voltage.
Typ. $\pm 0.4\%$.
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in (Latch).
Adjustability: Available at VO1.
LED Indicator: Output indicating.
Overload Protection (OLP):
Fully protected against output overload and short circuit.
Typically set at 115% max. load.
Consult the factory for special OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 76%.
Switching Frequency: Fixed freq. 56K Hz.
Circuit Topology: Fixed frequency flyback circuit.
Transient Response: Peak transient typ. 150mV, recovers in 50.6ms following a 50% load change.
Safety Standard: IEC 60950-1/UL 60950-1 Class I.
Power Density: 1.4 Watt/ Cubic Inch.
Industrial Grade UL 508.
Operating Temperature: -10 to +70°C. Derating from +60 °C to +70°C by derating 2%/°C.
Storage Temperature: -25 to +85°C.
Temperature Coefficient: Typ. 0.03% /°C.
Cooling: Convection cooling for $T_a < +60^\circ\text{C}$.
Moving air is request for $T_a > +60^\circ\text{C}$ full load operation.
Construction format: Enclosure metal box with DIN-clips format.
MTBF Demonstrated: >380,000 hours at full load and 25°C ambient conditions.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

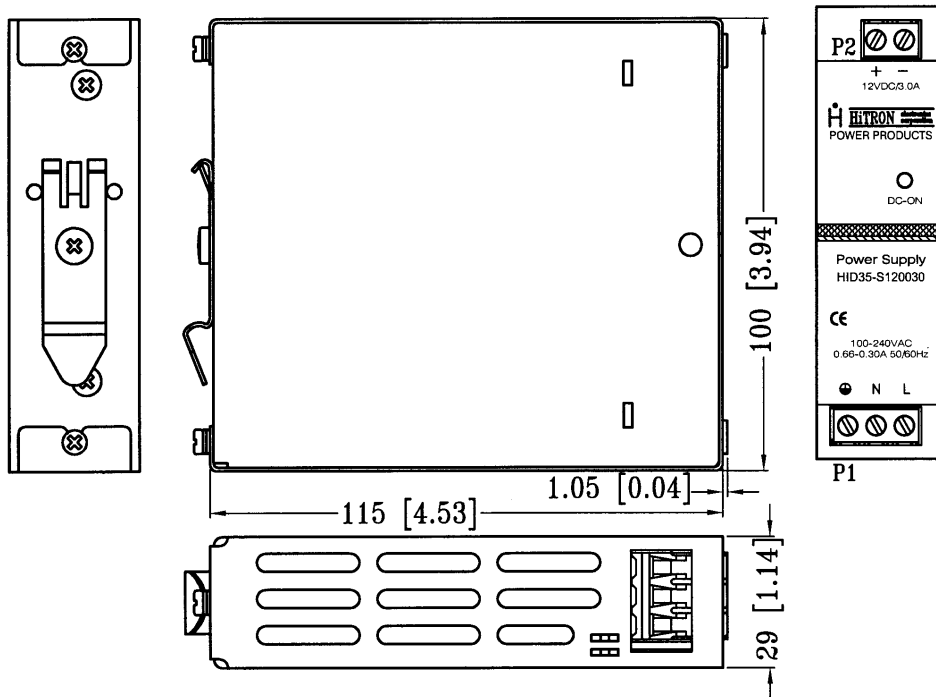
| MODEL NO. | MAIN VO1 @ ★ | | |
|----------------------|--------------|--------------|------|
| | Typ. | Volt. | Peak |
| HID35-S050060 | 6.0A | 5.0V | 6.0A |
| HID35-S120030 | 3.0A | 12.0V | 3.0A |
| HID35-S240012 | 1.2A | 24.0V | 1.4A |
| HID35-S480008 | 0.8A | 48.0V | 0.9A |

Symbol: "@"Adjustable. "★" OVP built-in .

Remark: Peak load less than 60 sec. with duty cycle <10%.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 370.0g(13.04 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

| ASSIGNMENT CNTR & PIN # | AC INPUT | | | SINGLE OUTPUT | |
|----------------------------|----------|------------|-----------|---------------|--------|
| | AC-LINE | AC-NEUTRAL | AC-GROUND | VO1 | DC COM |
| | P1-3(L) | P1-2(N) | P1-1(G) | P2-1 | P2-2 |