DIN SERIES POWER SUPPLY

48 and 24 Volt, 480 Watt DC Power Supplies for DIN Rail Applications

Features

- **480 Watt 48 or 24 Volt DC Output**
- **120-240 Volt AC** input
- **93 to 95%** efficiency
- **-30°C to +60°C** operating temperature range
- **Integrated Battery Charging** and **Low Voltage Disconnect**
- **Adjustable battery charge current**
- **Dual load connectors** for installation flexibility
- **Temperature compensated** battery charging (for lead-acid batteries only)
- **Form C** alarm contacts
- **Serial communications port** for remote monitoring over Ethernet when used with ICT Intelligent DIN Power Distribution Unit
- **Support for lead-acid and lithium-ion** battery types

Applications

- Wireless communications networks
- Fixed Wireless Access
- SCADA
- Internet of Things (IoT)
- Security and surveillance
- Industrial DC power

Description

The ICT DIN Rail DC power supply with integrated battery charging and low voltage disconnect provides 480 watts of 48 or 24 volt DC output. It features wide-ranging AC input, low-noise FCC Class B emissions, temperature-compensated charging, adjustable charge current, and Form C alarm contacts.

The ICT DIN Series power supply can be paired with the ICT DIN Series power distribution unit for a fully remote monitored and managed DC power solution over Ethernet.

The ICT DIN Series is designed, manufactured and supported in North America to meet the need for wireless communications, broadband and other demanding DC power applications.

ICT DIN Power Distribution Unit *(Sold separately)*

The ICT DIN PDU is an intelligent load distribution unit that will distribute DC power to six load devices rated up to 15 Amps each. It features an Ethernet controller for full monitoring and control of each output, allowing power cycling and load shedding, either manually or automatically. When paired with the ICT DIN Series power supply, key performance indicators of the power supply will also be reported to the user through the secure web browser interface or SNMP. (See ICT-DIN-PDU6 Data Sheet for details.)

AC Input

Nominal system voltage	120/240 VAC
Input voltage range	108-264 VAC
Power factor (typical)	0.99
Frequency	50/60 Hz

Electrical Specifications

Nominal DC output voltage	+/- 48 VDC	+/- 24 VDC
DC output voltage	55.2 VDC	27.6 VDC
Power output	480 W	480 W
Output current	10 A	20 A
Efficiency (peak)	95 %	93 %
Output ripple (rms)	<100 mV	<100 mV

Mechanical

AC input connector	Terminal Block, #12 - #16 AWG
DC output connectors	Terminal Block, #10 - #14 AWG
Remote alarm connectors	Terminal Block, #22 - #26 AWG
Mounting	TS35 (EN50022) standard DIN rail mount
Cooling	Convection, fanless
Weight	3.98 lbs /1.81 kg
Dimensions - H x W x L	5.8 x 3.8 x 5.4 in. / 147 x 96 x 138 mm

Environmental

Operating temperature range	-30°C to +60°C
Output derating	2% / °C (Derate above 40°C)
Storage temperature	-45°C to +85°C

Design Standards

Safety	CSA/UL/EN 62368-1
Emissions	FCC Part 15 Class B, ICES-003, EN61000-6-3:2021, EN61000-6-1:2019, EN61000-3-2:2014, EN61000-3-3:2013, CE, RoHS

Warranty

	Two years

Ordering Information

Model Number	Description
ICT480-48DIN	DIN rail mount 480 watt, 48 volt DC power supply with integrated low voltage disconnect. Functions standalone or with remote monitoring over Ethernet when used with ICT-DIN-PDU6 intelligent power distribution unit.
ICT480-24DIN	DIN rail mount 480 watt, 24 volt DC power supply with integrated low voltage disconnect. Functions standalone or with remote monitoring over Ethernet when used with ICT-DIN-PDU6 intelligent power distribution unit.
ICT-DIN-PDU6	DIN rail mount 6 position GMT-protected DC load distribution panel (GMT fuses not included).

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