ICT180SE-12IRC

Enhanced Single Bus Intelligent DC Load Distribution Panel

The redesigned ICT180SE-12IRC load distribution panel allows DC power to be distributed to nine ATO fuse-protected output channels and three J-Case high current outputs. An operating voltage range of 10 to 30 volts DC makes this panel ideal for 12 and 24 volt DC applications. ICT's industry-leading TCP/IP Ethernet management software and easy to use graphical user interface are included. Remote power control of individual outputs allows for manual or automatic load shutdown, load shedding, or power cycling over Ethernet.

ICT180SE-12IRC
Single Bus Intelligent Fuse Panel

Features

- 180A peak, 150A continuous system rating
- 9 ATO fused outputs (25A max. each) and 3 J-Case outputs (40A max. each)
- Operating voltage range +10 to +30VDC
- Ethernet-based monitoring and alarm reporting of each output
- Remote Power Control for remote shutdown or power-cycling of individual outputs
- HTTPS, TLS1.3, SNMPv1/v2c/v3
- Remote updating of firmware
- Form C contacts
- Up to 30 days of data logging
- Restore to previously saved settings after a power loss
- Independently adjustable load shed settings
- 5 digital alarm contact inputs for site monitoring and reporting of alarms such as door, water, and smoke detectors
- Fuse-ignore feature prevents nuisance alarms from unused output positions
- 2-year warranty

Description

The redesigned ICT180SE-12IRC Intelligent load distribution panel features a built-in Ethernet controller and web server, allowing users to remotely monitor and control loads connected to the panel.

A new microprocessor allows for improved network security and functionality, including TLS1.3, full SNMP control via new MIB files, session log-out, and enhanced Network Watchdog performance.

Remote Power Control allows individual DC outputs to be managed remotely using the Ethernet connection. This allows connected devices to be turned on and off or power-cycled, potentially averting the need for an on-site service visit.

System voltage and current, and current readings of each output, can be monitored. This can provide an indication of a problem with the system power, or with individual connected loads such as radios, switches, or access points. Text or email alerts can be sent when an alarm is triggered.

The Network Watchdog feature pings designated I.P. addresses and will power cycle, enable, or disable an assigned output automatically, allowing devices such as routers to be power-cycled to avoid losing communications to the site. Load shedding is provided with user definable settings for each output, allowing non-essential loads to be automatically shut down in order to conserve battery power for priority loads.

Applications

- Two-way wireless communications networks
- Trucked radio systems
- RF amplifiers
- Industrial DC power

POWER SPECIFICATIONS

Nominal Application Voltage	12 and 24VDC
Operating Voltage Range	+10 to +30VDC
Panel Current Rating (Peak)	180A
Panel Current Rating (Continuous)	150A
Number of ATO Fused Outputs	9
ATO Fuse Rating (Max)	25A(1)(2)
Number of J-Case Fused Outputs	3
J-Case Fuse Rating (Max)	40A(1)(2)

(1) Please follow all recommendations of the fuse manufacturer. Fuses and wiring should be continuously operated at no more than 80% of their current rating.
(2) Ships with three 40A J-Case fuses and an assortment of ATO fuses installed.

MECHANICAL

Form Factor	1RU - 19 Inch rack mount with handles
Dimensions (L x W x H)	9.3 x 19 x 1.7 in. / 235 x 483 x 44 mm
Weight (lbs/kg)	8.0 lbs / 3.6 kg
Fuse Position	Front panel
LED Alarm Indicators	Front panel
LCD Digital Display	Front panel
Power Connectors	DC input stud connectors, DC output terminal blocks, Form C alarm contacts, grounding stud, RJ-45 Ethernet
Site Monitoring	Five external dry alarm contacts. Monitors external contact closure, configurable for NO or NC logic, applied voltage 3.3V, 0.4mA for contact closure detection

ENVIRONMENT

Operating Temperature Range	-20C to +60C
Cooling	Convection (fanless)

COMMUNICATIONS & CONTROL

Ethernet	TCP/IP built-in web server and graphical user interface, 10/100BASE-T, IEEE 802.3 compatible
Supported Protocols	IPv4, IPv6, HTTP, HTTPS, SMTP, DNS, TCP, UDP, ICMP, DHCP, ARP, SNMP v1/v2c/v3
SNMP Ports	UDP Port 161, SNMP Traps: UDP Port 162
Firmware Upgrades	Upgradeable over Ethernet
Security	Password protected, HTTPS, TLS1.3, session log-out
12 Channel Output Monitoring	Current draw measured and reported for each output, definable under and over current alarms
Email and SMS Alerts	Multiple email or text accounts, adjustable intervals
Data Logging	Up to 30 days at 1 minute sampling rate, csv file download, major event logging
Network Watchdog	Autonomously ping up to 12 I.P. addresses and power-cycle output if no response
Remote Alarms	Form C alarm contacts (C/NO/NC)
Remote Power Control	Each DC output on/off selectable
Auto Restore Mode	Will return to previous output settings after a power loss
Output Power-Cycle Sequencing	User selectable 0 to 60 second delay between outputs energizing
Auto Load Shedding	Each output user definable, manual or auto restart

ORDERING INFORMATION

ICT180SE-12IRC	12 output Intelligent fuse panel for positive 12 and 24 volt DC applications
ICT-RA2319	23 to 19 inch rack reducer kit allows all ICT Distribution Series models to be installed in a 23 inch rack

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