ICT180S-12BRC

Intelligent Single Bus GMT Broadband DC Load Distribution Panels

ICT DISTRIBUTION SERIES 2 1RU Intelligent DC load distribution panels allow DC power to be distributed to 12 GMT fuse-protected output channels. Models are available for negative (BRC) or positive DC voltage systems (BRCP) with a voltage rating of 10 to 60 volts DC. Includes ICT's industry-leading TCP/IP Ethernet management software and easy to use graphical user interface. Remote power control of individual outputs allows for manual or automatic load shutdown, load shedding, or power cycling over Ethernet.

ICT180S-12BRC and ICT180S-12BRCP
GMT Fuse Panels for NEG or POS 10-60 volts DC

Features

- 180A peak, 150A continuous system rating 12 GMT fused outputs (15A max. each)
- Operating voltage range 10-60 volts DC
- Ethernet-based monitoring and alarm reporting of each output
- Remote Power Control for remote shutdown or power-cycling of individual outputs
- HTTPS, TLS1.0, 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 if an unused output does not have a fuse installed
- 2-year warranty

Description

ICT Intelligent broadband DC load distribution panels feature a built-in Ethernet controller and web server, allowing users to remotely monitor and control loads connected to the panel.

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 individual output current readings 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 a designated I.P. address and will restart 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 reserve battery power for priority loads.

The easy to use ICT Graphical User Interface can be accessed from a secure web browser, or SNMP is provided for users with Network Management Systems.

Applications

- Broadband communications networks
- Microwave backhaul
- DAS
- Security and surveillance
- SCADA/PLC power and control
- Industrial DC power

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POWER SPECIFICATIONS

Nominal Application Voltage	48VDC
Operating Voltage Range	10 to 60VDC
Panel Current Rating (Peak)	180A
Panel Current Rating (Continuous)	150A
Number of GMT Fused Outputs	12
GMT Fuse Rating (Max)	15A(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) GMT fuses not included.

MECHANICAL

Form Factor	1RU - 19 Inch rack mount with handles
Dimensions (L x W x H)	9.29 x 19.0 x 1.72 in. / 236 x 483 x 44 mm
Weight (lbs/kg)	7.0 lbs / 3.2 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	-30C 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, 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, TLS1.0
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 two I.P. addresses and power-cycle output if no response, definable settings
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
Power-up Delay Sequencing	User selectable 0 to 60 second delay between outputs energizing
Auto Load Shedding	Each output user definable, manual or auto restart

ORDERING INFORMATION

ICT180S-12BRC	12 output Intelligent GMT fuse panel for negative voltage applications (eg. -48 or -24 VDC)
ICT180S-12BRCP	12 output Intelligent GMT fuse panel for positive voltage applications (eg. +24 or +48 VDC)
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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