HELIOS ICT200DF-20BRC Smart GMT DC Load Distribution Panel User Manual

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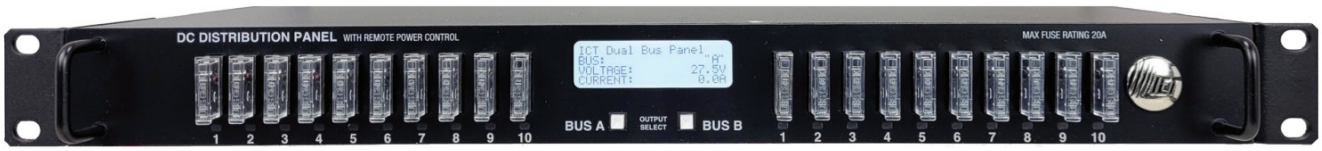

Contents

Introduction

The ICT200DF-20BRC is an intelligent, dual bus, DC load distribution GMT fuse panel with remote monitoring and power control over Ethernet. Each bus is rated at 100A continuous and provides 10 GMT fuse positions, each rated at 20 Amps maximum. The ICT200DF-20BRC is designed for sites requiring I.P.-based remote monitoring and power control of up to 20 connected loads.

CE RoHS

Overview

The ICT200DF-20BRC DC Distribution Panel provides a dual bus, common ground 1RU solution for applications requiring remote monitoring and power control of up to 20 individual loads. The on-board TCP/IP and web server provide an easy to use, graphical user interface for remote management and power control of system and individual outputs. Each bus supports up to ten 20A GMT fuses for 48 or 24 volt DC applications.

Dual voltages and polarities can be supported on a single panel, useful for sites requiring -48 and +48 or -48 and +24 volts DC to be distributed simultaneously.

Alarms can be sent to multiple email accounts, and each output has definable load-shed settings. The network watchdog feature will ping up to 12 pre-determined I.P. addresses, such as a router, and power-cycle the device if not answered.

There are five digital inputs for connecting site monitoring sensors such as door, fire, and water alarms. These alarms can be given individual names and be sent as email alarm notifications.
The on-board web server means there is no software to maintain, and SNMPv3 is also supported. Firmware can be updated remotely over Ethernet.

The ICT200DF-20BRC allows each connected load to be monitored, power cycled, or taken off-line. This functionality can be used to conserve power, troubleshoot devices, and reboot connected loads remotely, possibly preventing or delaying the need for a costly site visit

Features

- 200A continuous system rating / 100A per bus
- +/-24 or +/-48 VDC
- 20A GMT fuses per output (16A continuous)
- TCP/IP remote management and power control of individual outputs
- Ten fully managed outputs per bus
- Independent Form C alarm contacts for each bus
- Remote firmware update capability
- HTTPS, SMTP, SNMPv3 protocols supported
- Monitoring and alarm reporting of each output for pinpointing of issues with connected loads
- Each output has adjustable load-shed settings
- Adjustable power-on sequencing
- Site monitoring sensor inputs with alarm reporting
- Data logging
- 2-year warranty

Applications

- Fixed Wireless Broadband
- Radio Access Networks
- DAS

- Remote Sites
- Secondary Distribution

Power Specifications

Operating Voltage Range (POS	or	NEG)	20-60VDC
System Current Rating	200A cont		
A/B Bus Current Rating	100A cont		
Number of Outputs per Bus	10		
Max. GMT Fuse Size	20A (1)		
Continuous Load Rating	16A per output		

Environment

Operating Temperature Range	-20 ℃ to +60 ℃
Cooling	Convection

Mechanical

Form Factor	1RU – 19 Inch rack mount
Dimensions L x W x H	9.4 x 19.0 x 1.7 in 236 x 483 x 45 mm
Weight (lbs/kg)	9.5 lbs / 4.3 kg
Input Connectors	Dual 1/4” – 20 studs with 0.625” spacing
Output Connectors	Cage clamp 10-22AWG

Design Standards

FCC, CE, ROHS

Warranty

Two years

Communications and 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, SNMPv1/v2c/v3
SNMP Ports	UDP Port 161, SNMP Traps: UDP Port 162
Firmware Upgrades	Upgradeable over Ethernet
Security	Password protection, HTTPS encryption, TLS 1.2
20 Channel Output Monitoring	Current draw measured and reported for each output, user 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, definable settings
Power Cycling and Rebooting	Remote on/off control of every output individually
Auto Restore Mode	Return to previous output settings after a power loss
Power-up Delay Sequencing	User selectable 0 to 60 second delay between outputs
Auto Load Shedding	Each output user definable, manual or auto restart

Configurable Alarms

- Channel over current threshold
- Channel over/under current
- Bus over current
- Automatic load shedding
- Bus over/under voltage threshold
- Site monitoring input contact status

Site Monitoring Inputs

Max. GMT Fuse Size	**5**
Connector type	Removable cage clamp 16-28AWG

Ordering Information

Model Number	Description
ICT200DF 20BRC	Dual bus common ground 10-10 GMT fuse DC distribution panel (fuses not included)
ICT-RA2319 (2)	ICT 23 to 19 inch, 1RU rack mount reducer kit

(1) GMT fuses not supplied by ICT
(2) Option, orderable separately

Customer Support

Australia: sales@heliosps.com.au – Middle East & Asia: sales@heliosps.asia – New Zealand: sales@heliosps.co.nz
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Documents / Resources

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