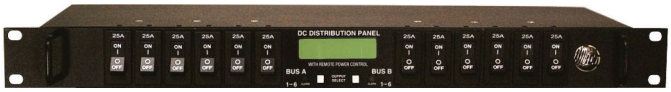
ICT200DB-12IRC

Dual Bus DC Load Distribution Panel (Breaker Model)

The ICT DISTRIBUTION SERIES 3 intelligent breaker panel provides independent dual bus capability for redundant systems or mixed-voltage sites. Each bus is rated at 100A peak and provides six breaker-protected outputs, and includes ICT's industry leading TCP/IP remote management and power control features.



ICT200DB-12IRC
Intelligent Dual Bus Breaker Panel

Common Features

- 200A peak system current rating / 100A per bus
- Six outputs per bus
- Configurable for dual bus or single bus operation
- Independent Form C alarm contacts for each bus
- Breaker-protected outputs
- High-quality, reliable hydraulic/magnetic breakers support 12, 24 and 48VDC
- Mixed voltages and polarities can be supported in one panel (provided grounds are common)
- -20 to +60C operating temperature range
- 2 year warranty

Intelligent Model Features

- TCP/IP remote management and power control of system and individual outputs
- On-board web server means no software to maintain
- Extremely easy to use Graphical User Interface
- Remote firmware update capability
- HTTPS, SMTP, SNMP protocols supported
- Monitoring and alarm reporting of each output for pinpointing of issues with connected loads
- Alarms can be sent to multiple email accounts
- Each output has adjustable load-shed settings
- Network Watchdog feature will ping a pre-determined I.P. address and power-cycle connected device if not answered
- Five digital inputs for site monitoring sensors
- Data logging
- Password protection

CE RoHS

Lower Cost of Ownership and Site Maintenance

Intelligent, I.P. enabled for remote monitoring and remote shutdown or power cycling of individual outputs, potentially saving unnecessary service call-outs. Includes five digital input contacts for site monitoring sensors such as door, smoke, and water detection. Each input can be custom labeled to provide descriptive email alerts. All Distribution Series 3 models feature independent Form C outputs to monitor and report alarm conditions for each bus.

Remote TCP/IP Monitoring

The Intelligent panel is TCP/IP enabled, and utilizes a built-in Ethernet connector with integrated web server to allow users to remotely monitor load conditions at the panel. System voltage and current, as well as the current reading of each output, can be monitored. This can provide an indication of a problem with the system power, or with individually connected devices such as a radio, repeater, or RF amplifier. Text or email alerts will be sent when an alarm is triggered. Up to 30 days of data logging is provided.

Remote TCP/IP Power Control

The intelligent panel allows the individual DC outputs to be turned on and off remotely using the TCP/IP connection. This allows connected devices to be power-cycled or shut down, potentially averting the need for an on-site service visit. 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 without risk of 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 prolong power to priority loads.

POWER SPECIFICATIONS	ICT200DB-12IRC
System Current Rating (peak/cont)	200A/160A
Bus Current Rating (peak/cont)	100A/80A
Number of Outputs per bus	6
Operating Voltage Range	10-60VDC
Number of Breaker Outputs	12
Max Breaker Ratings (12,24V)	30A (1)(2)
Max Breaker Rating (48V)	20A (1)(2)

ENVIRONMENT	
Operating Temperature Range	-20 C to +60 C

MECHANICAL	
Form Factor	1RU - 19 Inch rack mount with handles
Dimensions (inches) L x W x H	9 x 19 x 1.7
Weight (lbs/kg)	7.0 lbs / 3.2 kg
Connectors	M8 DC input stud connectors, 10-22AWG cage clamp output terminal blocks

REGULATORY	
Safety, EMC-Emissions, EMC-Immunity, RoHS	ROHS Designed to meet FCC CFR47 Part15/B, IEC 60950-1, CE

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 encryption, TLS 1.3
12 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 six 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
Output Power-Cycle Sequencing	User selectable 0 to 60 second delay between outputs
Auto Load Shedding	Each output user definable, manual or auto restart
Remote Alarms	Independent Form C alarm contacts (C/NO/NC)

(1) Please follow all recommendations of the manufacturer. Fuses, breakers and wiring should be continuously operated at no more than 80% of their current rating.
(2) Hydraulic/magnetic breakers not included, must be ordered separately.

ACCESSORIES

	5 AMP	10 AMP	15 AMP	25 AMP	30 AMP
Hydraulic/magnetic circuit breaker	ICT-CB5	ICT-CB10	ICT-CB15	ICT-CB25	ICT-CB30
Blanking plate for unused breaker positions	ICT-BLP				
ICT 23 to 19 inch, 1RU rack mount reducer kit	ICT-RA2319				

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