MIL-STD-810G DUAL BUS DC LOAD DISTRIBUTION PANEL

The ICT200DB-12IRC/MIL dual bus DC load distribution panel has been designed and engineered to meet the challenging MIL-STD-810G standard for harsh environmental and battlefield conditions. This design has been tested and verified for military use.

The ICT200DB-12IRC/MIL provides independent dual bus capability for 12, 24 or 48 volt DC systems. Each bus is rated at 100 Amps and provides six breaker protected outputs. On board TCP/IP capability provides customizable remote monitoring as well as remote shutdown and power cycling of individual outputs. Five digital input contacts are provided for site monitoring sensors such as door, smoke, and water detection. Each input can be custom labeled in the web interface to provide descriptive email alerts.

The on-board, easy to use embedded graphical user interface requires no software to maintain, and remote updates can be made over Ethernet.

FEATURES

▶ 200A peak system current rating (100A per bus)
▶ Six load outputs per bus
▶ Independent Form C alarm contacts for each bus
▶ High-quality, reliable hydraulic/magnetic breakers support 12, 24 and 48VDC systems (breakers sold separately)
▶ Mixed voltages and polarities can be supported in a single panel
▶ -30 to +60C operating temperature range
▶ 2 year warranty

REMOTE TCP/IP MONITORING & CONTROL

▶ 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, SNMPv1/2c/3 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 with email notifications sent
▶ Data logging
▶ Password protection

STANDARDS

MIL-STD-810G tested and verified for shock and vibration, salt fog, humidity, sand and dust, including Method 507.6 Procedure II Aggravated, Method 514.7 Procedure I Category 4, and Method 510.6 Procedure I Blowing Dust.

MODEL NUMBER   **ICT200DB-12IRC/MIL**

SPECIFICATIONS

Application Voltage (pos or neg ground)	12, 24, 48VDC
System Current Rating (peak/cont)	200A/160A
Operating Voltage Range	10-60VDC
Number of Outputs per bus	6
Bus Current Rating (peak/cont)	100A/80A
Number of Breaker Outputs	12
Max Breaker Ratings (12,24V/48V)	25A/15A[1][2]

MECHANICAL

Dimensions (inches) L x W x H	9.29 x 19.0 x 1.72
Weight (lbs/kg)	7.0 lbs / 3.2 kg
Connectors	M8 DC input stud connectors, 10-22AWG cage clamp output terminal blocks

ENVIRONMENT

Operating Temperature Range	-30°C to +60°C

STANDARDS (Tested and Verified for Military Use)

Humidity	MIL-STD - 810G CHG 1 Method 507.6 Procedure II Aggravated
Vibration	MIL-STD-810G CHG1 Method 514.7 Procedure I Category 4, Composite Wheeled Vehicle
Blowing Dust	MIL-STD - 810G CHG 1 Method 510.6 Procedure I Blowing Dust

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, 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 two 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

ORDERING INFORMATION

	MODEL NO.
6/6 dual bus DC distribution panel, 200A system rating	ICT200DB-12IRC/MIL
5 Amp hydraulic/magnetic circuit breaker	ICT-CB5 [1][2]
10 Amp hydraulic/magnetic circuit breaker	ICT-CB10
15 Amp hydraulic/magnetic circuit breaker	ICT-CB15
25 Amp hydraulic/magnetic circuit breaker	ICT-CB25
Unused breaker position blanking plate	ICT-BLP

(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.

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