

# **ENERGY MANAGER SERIES**

Intelligent 300A DC Load Distribution Panel with Remote Management of 50-Amp Load Outputs



# Overview

The ICT300DB-12IRC DC Distribution Panel provides a dual feed, common ground 2RU solution for -48 volt DC applications requiring remote monitoring and power control of up to 12 individual loads. Each bus is rated at 150 Amps and provides six outputs rated at 50 Amps each. The integrated TCP/IP controller and web server provides a secure, easy to use graphical user interface for remote management and power control of system and individual outputs. SNMPv3 is supported for use with Network Management Systems. Firmware can be updated remotely over Ethernet.

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 no response is received.

The ENERGY MANAGER SERIES allows each connected load to be remotely 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.

Front access to load breakers simplifies installation and changes in enclosed racks or confined spaces. Convection cooling provides enhanced reliability.

#### **Features**

- > 2RU, 19 inch design
- Convection cooled
- -48 VDC (nominal) operating voltage
- 300A system rating / 150A per bus
- ▶ 12 outputs (6/bus) rated at 50A each with remote ON/OFF control
- TCP/IP remote management and power control of individual outputs using secure web browser or SNMPv3
- Monitoring and alarm reporting of each output
- Each output has adjustable load-shed settings
- Network ping detection circuitry
- Adjustable power-on sequencing
- Data logging
- 2-year warranty

## **Applications**

- Radio Access Networks / 5G
- **DAS**
- Fixed Wireless Broadband
- Remote Sites
- Fiber Networks
- Cable Headend
- Data Centers



800-371-004



sales@heliosps.asia

+65 6871 4140

New Zealand

+971 4 401 8484

# **TECHNICAL SPECIFICATIONS**

### **Power Specifications**

Operating Voltage Range	-30 to -60VDC
System Current Rating	300 Amps
Bus Current Rating	150 Amps each
Number of Outputs per Bus	6
Max. Output Breaker Rating	63A
Max. Load Output Rating	50 Amps per output
Electro-mechanical Output Relay Logic	Normally open

#### Environment

Operating Temperature Range	-30°C to +60°C
Output Derating	2% / °C (above 50°C)
Storage Temperature	-40°C to +70°C
Storage Humidity	30-90% RH
Cooling	Convection

#### Mechanical

Form Factor	2RU - 19 Inch rack mount
Dimensions LxWxH	13.4 x 19.0 x 3.5 in 339 x 483 x 90 mm
Weight (lbs/kg)	17.0 lbs / 7.7 kg
Input Connectors	Bus bars with dual 5/8" holes (rear access)
Output Connectors	Integrated into breakers (front access)

# **Design Standards**

CSA/CSA US 62368-1, CE, RoHS

#### Warranty

#### **Communications and Control**

Ethernet	TCP/IP built-in web server and graphical user interface, 10/100BASE-T, IEEE 802.3 compatible
Supported Protocols	HTTP, HTTPS, SMTP, DNS, TCP, UDP, ICMP, DHCP, ARP, SNMPv1/v2c/v3, IPv4 (IPv6 future release)
SNMP Ports	UDP Port 161, SNMP Traps: UDP Port 162
Form C	NO/NC/C
Firmware Updates	Remote over Ethernet connection
Network Security	Password protection, HTTPS encryption, TLS 1.2
Load 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, low DC voltage triggered
, tato Load Oriodding	Lab. Super and admirable, manage of action 100 tall, 10 W DO Voltage triggered

#### Configurable Alarms

- Channel over current threshold
- Automatic load shedding
- ▶ Channel over/under current
- ▶ Bus over/under voltage threshold
- ▶ Bus over current

# **Ordering Information**

Model Number	Description
ICT300DB-12IRC	Intelligent 300-amp, 12 output, Dual Feed Panel
ICT-CMA <sup>(1)</sup>	Cable management assembly (front or rear mounted)

## Supported Breakers (1)

Туре	Model	Wire Gauge Supported
Miniature Circuit Breaker; 63A	ICT-MCB63	18 AWG to 6 AWG
Miniature Circuit Breaker; 50A	ICT-MCB50	18 AWG to 6 AWG
Miniature Circuit Breaker; 40A	ICT-MCB40	18 AWG to 6 AWG
Miniature Circuit Breaker; 32A	ICT-MCB32	18 AWG to 6 AWG
Miniature Circuit Breaker; 20A	ICT-MCB20	18 AWG to 6 AWG

(1) Option, orderable separately

Page 2 800-371-004



Innovative Circuit Technology Ltd. 26921 Gloucester Way, Langley, BC, Canada V4W 3Y3 Tel: 604-856-6303 | Fax: 604-856-6365 | Email: sales@ictcorporate.com | www.ict-power.com

© Innovative Circuit Technology Ltd. The information contained herein is subject to change without notice. ICT shall not be liable for technical or editorial errors or omissions contained herein.



New Zealand sales-nz@heliosps.com