



1000 Watt Hot Swappable DC Power Module

For ICT Modular Power Series, MPS Ultra, Hybrid Power Series and Hybrid Ultra DC Power Systems



Description

ICT 1000-watt hot-swappable DC power module is designed to provide high performance, reliability, and redundancy for 48-volt DC power systems. The high efficiency module is compatible with the ICT Modular Power Series, MPS Ultra, Hybrid Power Series, and Hybrid Ultra, which offer remote Ethernet-based communications for monitoring and control; enhanced security and reliability features including SNMPv1/v2c/v3 and TLS 1.3; fan-fail detect alarms; and advanced battery management features for sealed lead acid and lithium ion batteries.

Power Module Features

- ▶ 1000-watt module (48 VDC output)
- ▶ Hot swappable
- ▶ 91% maximum efficiency
- ▶ -30 C to +60 C operating temperature range

Applications

- ▶ Fixed Wireless Access
- ▶ Radio Access Networks
- ▶ FTTP/H PON GPON
- ▶ Distributed antenna systems (DAS)
- ▶ Security and surveillance
- ▶ Industrial DC power



ICT MODULAR POWER SERIES 2 & HYBRID POWER SERIES

- 1RU, 19 inch rack mount system
- Up to 4KW maximum output power with 1000W Power Modules
- Ethernet monitoring and control with Intelligent Control Module
- Optional fully-managed load distribution module (up to 8 outputs)
- Optional battery management module with 150A low voltage disconnect with single or dual 100A battery disconnects
- Hybrid Power Series integrated DC converter provides 700 watts of 12 or 24 volts DC output



ICT MPS ULTRA 2 & HYBRID ULTRA

- 2RU, 19 inch rack mount system
- Up to 8KW maximum output power with 1000W Power Modules
- Ethernet monitoring and control with Intelligent Control Module
- Optional fully-managed load distribution module (up to 12 outputs)
- Optional battery management module with 150A LVD with dual 100A battery disconnects
- Hybrid Ultra integrated DC converter provides 700 watts of 12 or 24 volts DC output

ELECTRICAL SPECIFICATIONS - POWER MODULES

	ICT1000-48PM
AC input voltage (nominal)	120/240VAC
Input voltage range	100-300VAC (no derating)
Input current (per module) at 115VAC nom.	10.0A max.
Power factor (typical)	0.99
Frequency	50/60Hz
Output voltage	+/- 55.2 VDC
Output voltage range (adjustable)	46.0 - 60.0 VDC
Power output per module	1000W
Maximum Output Current	18A
Efficiency (peak)	91%
Output ripple (rms)	< 60mV
Line regulation	+/- 0.1%
Load regulation	1.20% max

Environmental

Operating temperature range	-30° to +60° C
Output derating	2% /°C (above 50° C)
Storage temperature	-45° to +85° C

Mechanical

Dimensions (H x W x L)	1.73 x 3.66 x 11.34 in. 44 x 93 x 288mm
Weight (lbs/kg)	3.3 lbs / 1.49 kg

Design Standards

Safety	CSA/UL 62368-1
Emissions	FCC Part 15/B, EN61000-6-1, EN61000-6-3, EN61000-3-2, EN55032, (CE Pending)
Environmental	RoHS

Protection Features

Over-temperature, over-current shutdown, input and output over-voltage, current limiting, Oring mosfet, fan fail detect with remote alarm

Warranty

Two (2) Years

Ordering Information

Description	48VDC Output
1000W High Efficiency Hot Swappable Power Module	ICT1000-48PM

