



1500 Watt Hot Swappable DC Power Modules

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



Description

ICT 1500 watt hot-swappable DC power modules are designed to provide high performance, reliability, and redundancy for ICT 48 and 24 volt DC power systems. The high efficiency modules are 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 1.2; fan fail detect alarms; and advanced battery management features for sealed lead acid and lithium ion batteries.

Power Module Features

- ▶ 1500 watt modules (48 & 24VDC output)
- ▶ Hot swappable
- ▶ 95% maximum efficiency
- ▶ -30 C to +60 C operating temperature range
- ▶ CSA, FCC, CE, RoHS

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 & HYBRID POWER SERIES

- 1RU, 19 inch rack mount system
- Up to 6KW maximum output power with 1500W 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 & HYBRID ULTRA

- 2RU, 19 inch rack mount system
- Up to 12KW maximum output power with 1500W 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

	ICT1500-48PM	ICT1500-24PM
AC input voltage (nominal)	120/240VAC	
Input voltage range	90-300VAC (derate to 50% power at 90VAC)	
AC input current (per module) at 220VAC nom.	8.0A max.	
AC input current (per module) at 110VAC nom.	8.0A max.	
Power factor (typical)	0.99	
Frequency	50/60Hz	
Output voltage	+/- 55.2 VDC	+/- 27.6 VDC
Output voltage range (adjustable)	46.0 - 62.0 VDC	23.0 - 31.0 VDC
Power output per module (230VAC nom.)	1500W	1500W
Power output per module (115VAC nom.)	900W	900W
Output current per module (230VAC nom.)	27A	54A
Output current per module (115VAC nom.)	16A	32A
Efficiency (peak)	95%	94%
Output ripple (rms)	< 60mV	< 40mV

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)	1.7 x 3.7 x 11.4 in. 45 x 93 x 290mm
Weight (lbs/kg)	3.2 lbs / 1.45 kg

Design Standards

Safety	EN 62368-1
Emissions	CE Class A, UL/CSA60950-1, UL/CSA 62368-1, ICES-003, EN55032, EN 61000-3-2 and EN 61000-3-3
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

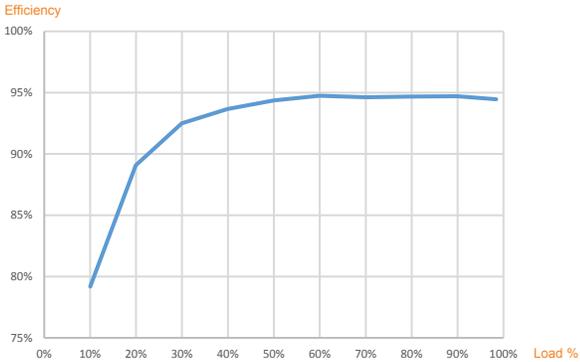


Fig. 1: 48VDC Power Module Efficiency

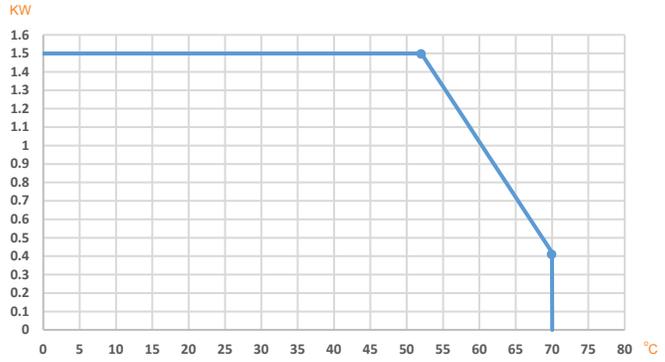


Fig. 2: Output Power vs. Temperature (C)

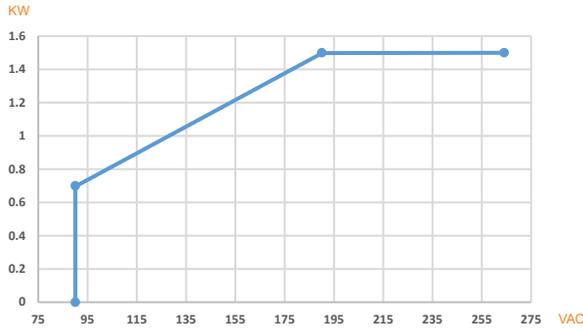


Fig. 3: Output Power vs. AC Input Voltage

