PLATINUM SERIES

1RU 800 and 1600 Watt DC Power Supply With Advanced Functionality

High Performance and Reliability with Advanced Power Management Features and Standard TCP/IP Monitoring and Control

Features

▶ **800 or 1600 watts** of output power

▶ **12, 24 or 48 volts** DC output

▶ **90 to 93%** efficiency

▶ **-30 C to +70 C** operating temperature range

▶ **TCP/IP Ethernet** is standard on every model - provides complete and easy-to-use remote monitoring and control of the power supply using built-in web server and graphical user interface

▶ **Battery Backup and LVD** available - with adjustable disconnect and reconnect voltage setpoints

▶ **User Adjustable** - output voltage and battery charge current limit

▶ **Advanced Battery Management** features available -

 - Battery state of charge and charge current reporting
 - Estimated run-time remaining
 - Battery discharge testing
 - Temperature compensated charging

▶ **Lithium-ion battery support**

▶ **Remote communications** maintained even when AC mains fail

▶ **Full range of certifications** - including CSA/UL, FCC Class B, CE, ROHS

▶ **High Resolution** OLED display

Description

ICT Platinum Series DC power supplies bring a new level of performance, functionality, and remote management to wireless communication applications. The 1RU Platinum Series provides 800 or 1600 watts of power and is available with 12, 24 or 48VDC output. It provides an ideal DC power solution for wireless communications professionals who demand high efficiency and space-saving DC power systems for LMR, broadband, and network communications equipment, with advanced features never before seen in this category of power supplies.

Ethernet-based communications and control is standard on every model. Enhanced security and reliability features include SNMPv1/2c/3, TLS 1.2, fan fail detect alarms, and extra high margin components designed for long life and enhanced durability.

The ICT Platinum Series is designed and manufactured in Canada to provide the most reliable, flexible, innovative DC power solution available today for wireless communications, broadband and other demanding DC power applications.

Applications

- Wireless two-way communications networks
- Trunked radio systems
- Microwave
- Backhaul
- DAS
- Security and surveillance
- Industrial DC power

HELIOS

POWER SOLUTIONS

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Power Specifications

Continuous Output Current - 12V	120A, 60A
Continuous Output Current - 24V	60A, 30A
Continuous Output Current - 48V	30A, 15A
Efficiency (typical) - 12V	90% @ 220VAC
Efficiency (typical) - 24V	91% @ 220VAC
Efficiency (typical) - 48V	93% @ 220VAC
Output Voltage Range - 12V	11.5 - 15.5VDC
Output Voltage Range - 24V	23.0 - 31.0VDC
Output Voltage Range - 48V	46.0 - 62.0VDC
Input Voltage Range	90-300VAC Derate 2% / V <100VAC
Frequency Range	50/60Hz
Power Factor (typical)	0.99
Output Ripple - 12V	30mV RMS
Output Ripple - 24V	30mV RMS
Output Ripple - 48V	60mV RMS
Line Regulation	0.1%
Load Regulation	0.5%

Environment

Operating Temperature Range	-30°C to +70°C Derate 2%/ °C > 50°
Temperature Controlled Fans (front to rear airflow)	

Standards

CSA22.2 No. 60950-1, FCC Class B, CE, ROHS

Mechanical

Form Factor	1RU - 19" rack mountable
Dimensions (L x W x H)	16.5 x 19.0 x 1.74 in. / 419 x 483 x 44 mm
Weight	15 lbs / 6.8 kg
AC Input Connectors	Terminal Block, #8 - #16 AWG
DC Output Connectors	Busbars with 3/8" Nuts & Washers
Remote Alarm Connectors	Terminal Block (#16 to #24 AWG)

Protection Features

Over-temperature, over-current shutdown, input and output over-voltage, current limiting, fan fail detection and remote alarm

Warranty

Two years

Intelligent Control Features - Front Panel

DISPLAY READINGS	ADJUSTMENTS AVAILABLE
AC input voltage	Set/enter password
DC output voltage	Turn DC outputs on and off
Output current	Adjust DC output voltage
Alarms status	Adjust output current limit
Parallel status [a]	Adjust LVD disconnect and reconnect voltage set points [b]
Battery functions	Battery management features [c]

(a) when configured for Smart Parallel Operation
(b) SBC models
(c) discharge/eqalize test start/stop only (setup requires SNTP sync over Ethernet)

TCP/IP Interface

All models include factory installed RJ45 Ethernet port with built-in web server and intuitive graphical user interface. Allows remote monitoring of power supply conditions. Remote management features include turning DC outputs off and on, adjusting output voltage and current-limit settings, and configuring Email alarm alerts. Interface is password protected. Protocols supported include HTTPS, SMTP, SNMPv1/2c/3 and TLS1.2.

Battery Management Features (SBC models only)

All Platinum Series models ordered with the SBC option provide advanced battery management features, including temperature compensated charging; monitoring and reporting of battery current and state of charge; estimated run time remaining; manual, periodic and automatic equalization; and automatic or manual battery discharge testing. Optional temperature sense probe available for temperature compensated charging. (Lithium-ion operation varies. See manual for more details.)

Ordering Information

	POWER	12VDC OUTPUT	24VDC OUTPUT	48VDC OUTPUT
Power supply with factory-installed TCP/IP Ethernet communications port for remote monitoring and control with built-in web server	1600W	ICT1600A-12SC	ICT1600A-24SC	ICT1600A-48SC
	800W	ICT800A-12SC	ICT800A-24SC	ICT800A-48SC
Power supply with factory-installed TCP/IP, battery backup terminal, automatic revert and low voltage disconnect with adjustable setpoints, advanced battery management features (not available with Smart Parallel Operation)	1600W	ICT1600A-12SBC	ICT1600A-24SBC	ICT1600A-48SBC
	800W	ICT800A-12SBC	ICT800A-24SBC	ICT800A-48SBC
Jumper Cable - allows Smart Parallel Operation with automatic load sharing when up to 6 Platinum Series power supplies are paralleled	ICT-JMP			
Bus Bar Straps - easy connection of output bus bars when installing two or more Platinum Series in parallel	ICT-PAR			
Temperature Sense Probe with 3M (10 ft.) cable - for use with SBC models	ICT-TMP			

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Specifications subject to change.

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