



*The Power of Reliability*

# 2020 PRODUCT CATALOG







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For detailed product specifications and data sheets, visit [www.ict-power.com](http://www.ict-power.com).

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## MPS ULTRA



## MODULAR POWER SERIES



## PLATINUM SERIES



### DESCRIPTION

2RU redundant, hot swappable DC power system up to 5.6KW. Factory preconfigured. Integrated battery management, LVD and I.P. managed load distribution outputs.

1RU redundant, hot swappable DC power system. Flexible configurations allow you to select the right system for your needs. Optional battery management, LVD and I.P. managed load distribution outputs.

1RU advanced DC power supply with standard TCP/IP Ethernet, optional battery backup with adjustable LVD including battery management features such as run time remaining, discharge testing.

### RATINGS

- ▶ 100–300VAC input
- ▶ 24 or 48VDC output
- ▶ Universal PFC AC input
- ▶ 90–93% efficiency
- ▶ -30°C to +60°C operating temp.
- ▶ CSA/UL/CE approved

- ▶ 100–300VAC input
- ▶ 12, 24 or 48VDC output
- ▶ Universal PFC AC input
- ▶ 90–93% efficiency
- ▶ -30°C to +60°C operating temp.
- ▶ CSA/UL/CE approved

- ▶ 1600W & 800W models
- ▶ 12, 24 or 48VDC output
- ▶ Universal PFC AC input
- ▶ 90–93% efficiency
- ▶ -30°C to +70°C operating temp.
- ▶ CSA/UL/CE approved

### FEATURES

- ▶ TCP/IP remote Ethernet communications
- ▶ HTTPS, SMTP, SNMP protocols
- ▶ Up to 12 I.P. managed load outputs can be power cycled individually
- ▶ Hot swappable 700W, high efficiency 24 or 48VDC power modules
- ▶ Up to 5600W of power with redundancy in a single shelf
- ▶ 150A Low Voltage Disconnect
- ▶ Dual 100A battery disconnect breakers
- ▶ Factory preconfigured for fast installation (no covers to remove)

- ▶ TCP/IP remote Ethernet communications
- ▶ HTTPS, SMTP, SNMP protocols
- ▶ Four I.P. managed load outputs can be power cycled individually
- ▶ Hot swappable 700W, high efficiency 12, 24, or +/-48VDC power modules and battery management
- ▶ Up to 2800W of power with redundancy in a single shelf
- ▶ A second shelf can be added for higher power applications
- ▶ Accommodates optional Battery Management Module and Load Distribution Module

- ▶ Intelligent high resolution OLED display allows control of output voltage and current limit
- ▶ Standard TCP/IP for remote monitoring and full control using web browser
- ▶ Optional battery backup with LVD and adjustable battery charge current
- ▶ Battery state of charge, run time remaining, and discharge testing
- ▶ Temperature compensated charging
- ▶ Supports SNMP v1/2/3, HTTPS and TLS1.2 for enhanced security

### APPLICATION EXAMPLES

- ▶ Wireless communications sites
- ▶ Fixed wireless broadband
- ▶ Radio Access Networks
- ▶ Small Cell/LTE

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- ▶ Wireless communications sites
- ▶ Fixed wireless broadband
- ▶ Backhaul
- ▶ DAS
- ▶ Industrial power applications



## PRO SERIES DC POWER SUPPLY



## DISTRIBUTION SERIES 2



## DISTRIBUTION SERIES 3



### DESCRIPTION

1RU high efficiency DC power supply with universal PFC AC input, and Form C alarm contacts. Available battery backup with integrated low voltage disconnect.

Single bus DC load distribution panels allow up to 12 devices to be powered from a single DC source. TCP/IP models allow for remote monitoring and power control of individual outputs over Ethernet.

Dual bus DC load distribution panels with rear or front-access connections for redundant operation or mixed voltage sites.

### RATINGS

- ▶ 1190W & 690W output
- ▶ 12, 24 or +/-48VDC output
- ▶ Universal PFC AC input
- ▶ 90–93% efficiency
- ▶ -30°C to +60°C operating temp.

- ▶ 180A peak system current
- ▶ ATO fuse models with nine 25A & three 40A J-case outputs
- ▶ 12 GMT 15A fuse output models
- ▶ 12, 24 or +/-48VDC applications
- ▶ -30°C to +60°C operating temp.

- ▶ 200A peak / 100A per bus current rating (rear access panel)
- ▶ 240A peak / 120A per bus current rating (front access panel)
- ▶ Six outputs per bus: 25A max for 12/24VDC; 15A max. for 48VDC (rear access panel)
- ▶ Four outputs per bus: 25A max for 12, 24 & +/-48VDC (front access panel)
- ▶ -30°C to +60°C operating temp.

### FEATURES

- ▶ Form C alarm contacts
- ▶ Remote shutdown terminal
- ▶ Battery backup terminal with automatic LVD

### FEATURES - DISTRIBUTION SERIES 2 & 3

- ▶ 1RU space-saving design
- ▶ Front mounted fuses or breakers for easy access and replacement
- ▶ Alarm contacts standard
- ▶ TCP/IP models provide remote monitoring and alarm notifications
- ▶ TCP/IP models allow individual outputs to be controlled remotely for power-cycling
- ▶ TCP/IP models provide five digital contact inputs for site monitoring sensors
- ▶ HTTPS, SMTP, SNMP protocols supported
- ▶ Easy to use Graphical User Interface
- ▶ Five digital inputs for site monitoring sensors
- ▶ On-board web server requires no software to maintain
- ▶ Remote firmware update capability

### APPLICATION EXAMPLES

- ▶ Wireless communications sites
- ▶ Fixed wireless broadband
- ▶ In-building DC power
- ▶ Industrial power applications
- ▶ Wireless communications sites
- ▶ Fixed wireless broadband
- ▶ RF, broadband, network power
- ▶ In-building DC power
- ▶ Wireless communications sites
- ▶ Fixed wireless broadband
- ▶ RF, broadband, network power
- ▶ Radio Access Networks





## SITE CONVERTER SERIES



## SITE INVERTER SERIES



## SINE WAVE SERIES



### DESCRIPTION

Convert 24 or 48 volts DC input to 12 or 24 volts DC output. High current, high efficiency rack mount isolated DC to DC power converters. For use in negative or positive ground systems.

300 watt pure sine wave inverter optimized for providing AC power to components at DC powered communication and network sites.

1500 watt pure sine wave inverter provides maximum performance and flexibility for a wide variety of applications. Options allow for tailoring to specific installation requirements.

### RATINGS

- ▶ 70A or 100A current output (12VDC output models)
- ▶ 35A or 50A current output (24VDC output models)
- ▶ 20–60VDC wide input voltage range

- ▶ 300W pure sine wave output with 600W surge capacity
- ▶ 115VAC output
- ▶ 12, 24 or +/-48VDC input models

- ▶ 1500W of pure sine wave output with 3000W surge capacity
- ▶ 115 and 230VAC output models
- ▶ 12, 24 or +/-48VDC input models
- ▶ CSA/FCC approved

### FEATURES

- ▶ High efficiency design (>90%)
- ▶ Extra-wide input voltage ranges for rugged applications
- ▶ +/- 1.0VDC adjustable output voltage
- ▶ Remote alarm signal standard
- ▶ Remote on/off contact terminal

- ▶ >90% efficiency
- ▶ 4W idle power draw
- ▶ -30°C to +60°C operating temp. range at full power
- ▶ Built-in protection features
- ▶ Input and output connectors at rear, close to where rack wiring connections are located
- ▶ Modular design allows up to three inverters in single 1RU rack for 900W of non-parallel power

- ▶ >90% efficiency
- ▶ Extremely low idle current draw
- ▶ -30°C to +60°C operating temp.
- ▶ Front and rear AC wiring accessibility
- ▶ Small form factor

### OPTIONS

- ▶ 1RU, 19" rack mount kit (shown above, holds one, two or three inverters)
- ▶ Dual front-mounted AC outlet accessory

- ▶ TCP/IP Ethernet for remote monitoring and power cycling
- ▶ Fast transfer switch shifts between DC and AC power sources
- ▶ 2RU, 19" rack mount kit for one or two units
- ▶ DC wiring box and cover

### APPLICATION EXAMPLES

- ▶ DC site voltage conversion for high power applications
- ▶ Radios, repeaters, trunking systems, RF amplifiers
- ▶ Industrial power conversion

- ▶ Provide AC power for links, multiplexers, PoE bridges, DVRs, security systems, fire alarm panels, laptops and test equipment at DC powered sites

- ▶ Power AC loads at communications sites such as servers, radio and repeater equipment
- ▶ Convert DC to AC for renewable and alternative energy systems, outdoor power enclosures



## INTELLICHARGE SERIES



## DC UPS SERIES



## ISOLATED SERIES 2



### DESCRIPTION

Desktop power supply with 3-stage intelligent battery charging also functions as a DC UPS, providing automatic battery revert and low voltage disconnect.

Provides hours of DC voltage backup for mission critical radios. Includes 14.4 amp hour battery, smart charger, low voltage disconnect and revert capability in one integrated solution.

Fully isolated DC power converters for use in negative or positive ground systems. Designed for high reliability and long-life operation.

### RATINGS

- ▶ 180W and 360W models
- ▶ 12, 24 or 48VDC output
- ▶ Universal power factor corrected 100–265VAC PFC input

- ▶ 150W (12A continuous)
- ▶ 12VDC output
- ▶ 100–265VAC PFC input

- ▶ 5A to 35A current ratings
- ▶ Models for 12, 24, 48 and 72VDC applications
- ▶ Input voltage ranges from 10VDC to 60VDC

### FEATURES

- ▶ CSA/UL/CE approved
- ▶ High efficiency design
- ▶ Adjustable charge rate settings
- ▶ Remote alarm contacts
- ▶ Form C alarm contacts
- ▶ Temperature compensated charging
- ▶ Separate terminals for easy connection of battery and load
- ▶ LVD prevents battery damage

- ▶ Three-stage charging cycle
- ▶ LED status indicators on front
- ▶ Internal 14.4Ah battery provides several hours of backup run time (depending on radio model and transmit times)
- ▶ External battery protection fuse
- ▶ Rugged terminal block connectors
- ▶ Under voltage lockout protection
- ▶ Zero transfer time when AC fails

- ▶ Complete isolation between input and output circuits
- ▶ Conformal coating for moisture and vibration resistance
- ▶ Wide input voltage ranges for rugged applications
- ▶ Remote on/off contact terminal

### OPTIONS

- ▶ High resolution OLED display
- ▶ Remote battery temp. sensor
- ▶ 1RU rack mount kit

- ▶ High resolution OLED display

- ▶ 2RU 19" rack mount kit

### APPLICATION EXAMPLES

- ▶ Communications sites
- ▶ Outdoor power systems
- ▶ Renewable energy systems
- ▶ DC UPS systems

- ▶ Backup power for critical base stations such as;
  - Dispatch centers
  - Schools
  - Mines
  - Utilities

- ▶ Outdoor power systems
- ▶ Renewable energy systems
- ▶ DC site voltage conversion
- ▶ Vehicle voltage conversion



## INDUSTRIAL SERIES



## COMM SERIES



## CHASSIS MOUNT SERIES



### DESCRIPTION

Non-isolated DC power converters for use on negative ground systems.

Next generation, high reliability desktop DC power supplies provide clean, quiet power for land mobile radios and other DC loads.

Compact, efficient switch mode DC power supply designed for enclosures, rack systems, outdoor power systems, SCADA and backhaul sites.

### RATINGS

- ▶ 5A to 40A current ratings
- ▶ Models for 12, 24 and 48VDC applications
- ▶ Input voltage ranges from 20VDC to 30VDC
- ▶ CSA/UL approved

- ▶ 120W to 360W
- ▶ 12 or 24VDC output
- ▶ 115VAC input
- ▶ 20A model with integrated battery charging outputs available
- ▶ CSA/FCC Class B approved
- ▶ 220VAC input models available
- ▶ 48VDC, 5A output model available

- ▶ 240W output power
- ▶ Battery backup charging
- ▶ 12, 24 or 48VDC output
- ▶ 100–265VAC PFC input
- ▶ 90% efficiency
- ▶ -30°C to +60°C operating temp.
- ▶ CSA/UL approved

### FEATURES

- ▶ Moisture and contaminant resistant design
- ▶ Built-in protection features
- ▶ Rugged terminal block input and output connectors
- ▶ High surge capacity

- ▶ Terminal block outputs
- ▶ Extra input/output filtering
- ▶ Ultra low output ripple for quiet operation
- ▶ Built-in protection features
- ▶ Industry leading reliability

- ▶ Battery backup float charging terminals standard
- ▶ Current limited battery float charge to prevent battery damage
- ▶ FCC Class B compliant
- ▶ Threaded mounting holes for easy installation
- ▶ Terminal block input and output connectors

### OPTIONS

- ▶ 2RU 19" rack mount kit (holds up to three converters)
- ▶ Class I Div 2 Hazardous Location models available (see [www.ict-power.com](http://www.ict-power.com) for details)

- ▶ 2RU rack mount kit
- ▶ Wide range of radio covers for land mobile base station applications

- ▶ None

### APPLICATION EXAMPLES

- ▶ Voltage conversion for vehicle mounted radios and equipment
- ▶ Outdoor power systems
- ▶ Renewable energy systems

- ▶ Wireless communications
- ▶ LMR base stations
- ▶ Industrial/commercial
  - DC motors, solenoids & valves
  - Automation systems
  - Security/surveillance systems

- ▶ Outdoor power systems
- ▶ Integrated radio transmitters
- ▶ DAS
- ▶ Backhaul



## ACCESSORIES

### 100A ISOLATION MODULE



#### DESCRIPTION

The 100 ampere Redundant Isolation Module allows for easy parallel connection of two DC power supplies or DC-DC converters to create an N+1 fault-tolerant redundant power system.

#### RATINGS

- ▶ Two input channels
- ▶ 100A rating
- ▶ 12, 24 or 48VDC support
- ▶ Compact, high efficiency active design minimizes voltage and heat loss

### LOW VOLTAGE DISCONNECT



A 200 ampere rated low voltage disconnect used to protect system batteries from over discharging. The Intelligent Control panel allows easy adjustment of disconnect and reconnect voltage setpoints.

- ▶ 200A at 12 and 24VDC, 100A at 48VDC
- ▶ Intelligent Control panel displays voltage, current and alarms status
- ▶ Form C remote alarm contact

### NOISE FILTERS



Filters out common and differential noise in industrial, automotive and electrical systems. Filters both positive and negative sides.

- ▶ 0.1VDC to 100VDC input range
- ▶ 12, 25 and 40A ratings
- ▶ 10Hz–200MHz filter range

### BATTERY TEMPERATURE SENSOR



#### DESCRIPTION

Provides temperature compensated charging for ICT IntelliCharge, Platinum and Modular Power Series.

#### RATINGS

- ▶ 3m (10ft) cable
- ▶ Adhesive backed plastic clip for affixing probe to battery case included

### CIRCUIT BREAKERS



High quality, hydraulic magnetic circuit breakers for Distribution Series 3 and Modular Power Series Load Distribution Module.

- ▶ Available in 5A, 10A, 15A, 25A
- ▶ Blanking plate available for unused positions

### RACK MOUNT TRAYS



Allows desktop or flange-mount ICT power products to be mounted in a standard 19" equipment rack.

- ▶ 1RU and 2RU models for rack mounting 1, 2 or 3 desktop power supplies, battery chargers, inverters or converters
- ▶ All fasteners included
- ▶ Open design can be utilized for other components at the site





## ACCESSORIES

# LAND MOBILE RADIO COVERS

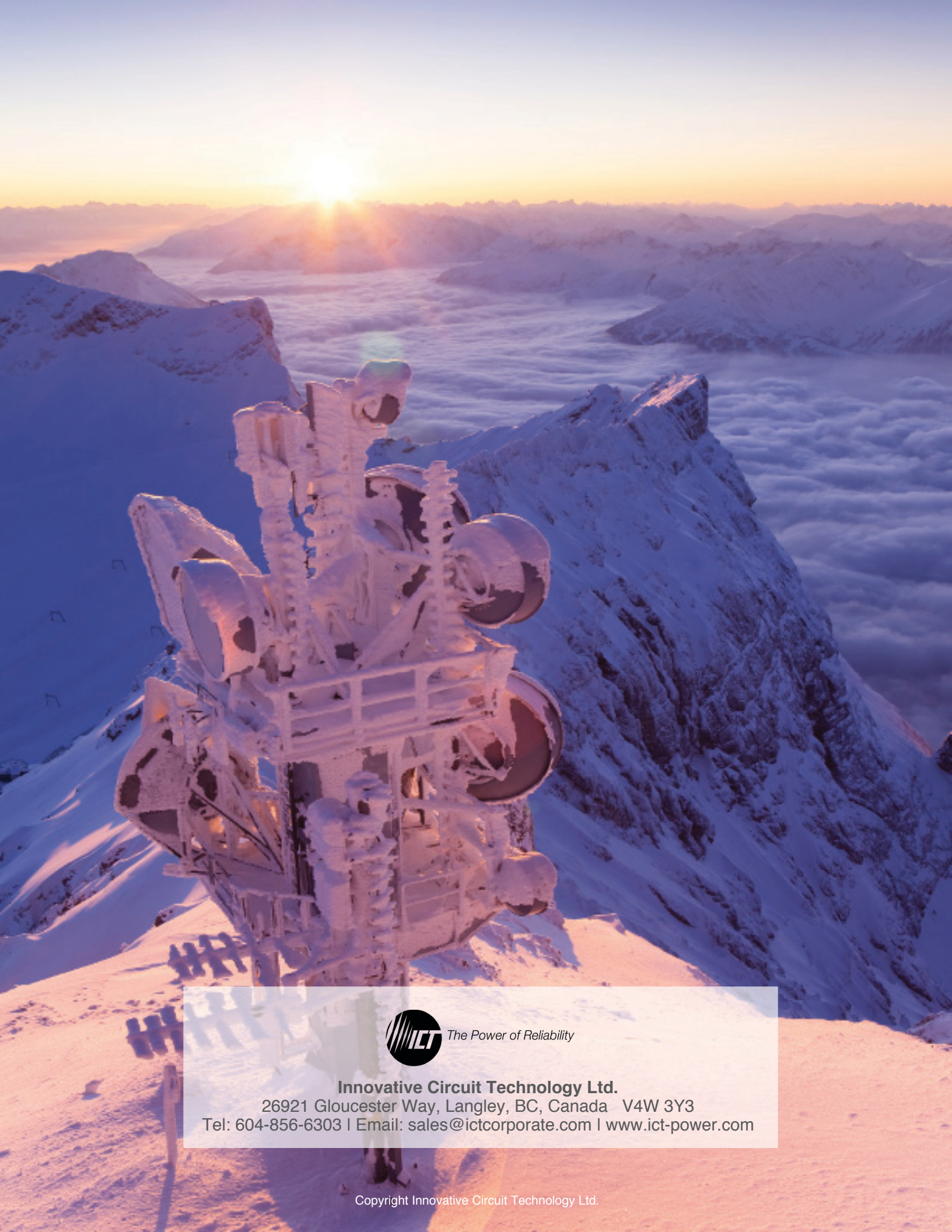
Choose an ICT custom designed radio cover for the next generation of ICT Comm Series power supplies starting February 1, 2020 to create an attractive space-saving base station. Use this reference guide to find your radio, then order the matching desktop power supply and radio cover.



ICOM	RADIO COVER MODEL	+	POWER SUPPLY MODEL
F5011, F6011, F5121D, F6121D	ICT-ICO4		ICT12-20
F5021, F6021, F121, F121S, F221, F221S	ICT-ICO4		ICT12-20
F1721, F1721D, F1821, F1821D, F2721, F2721D, F2821, F2821D, F9511, F9521	ICT-ICO6		ICT12-20
F5061, F5061D, F6061, F6061D	ICT-ICO9		ICT12-20
A120	ICT-ICO11		ICT12-12
F5400, 6400	ICT-ICO12		ICT12-12
KENWOOD			
TK5720/5820, TK7160/8160, TK7180/8180	ICT-KEN11		ICT12-12
TK7160/8160H, TK7180/8180H, TK7302/8302H, TK7360HV/8360HU, TK7302/8302H, NexEdge NX700/800, NX720/820HGK	ICT-KEN12		ICT12-20
NX-5700, NX-5800, VM5730-F	ICT-KEN13		ICT12-20
EF JOHNSON			
53SL ES	ICT-EFJ5		ICT12-20
MOTOROLA			
CM200, CM300, PM400	ICT-MOT11		ICT12-12
MOTOTRBO XPR4300, XPR4350, XPR4380	ICT-MOT13		ICT12-12
XPR4500, XPR4550, XPR4580	ICT-MOT14		ICT12-20
MOTOTRBO XPR5350, XPR5550	ICT-MOT14		ICT12-20
CM200D/300D, XPR2500	ICT-MOT16		ICT12-20
APX 4500	ICT-MOT17		ICT12-20
APX 6500 (Includes Speaker)	ICT-MOT18		ICT12-20
RCA			
BRM300D	ICT-RCA1		ICT12-20
VERTEX STANDARD			
VX2100/VX2200 Series, EVX5300/5400 Series	ICT-VTX6		ICT12-12
VXD-7200	ICT-MOT14		ICT12-20

**CAUTION:** Radio covers for the first generation Comm Series with model numbers like BASE-MOT16 are not compatible with next generation Comm Series.

This guide is provided for reference only. Every effort has been made to ensure the accuracy of the information presented. Due to changes made by radio manufacturers ICT cannot be held responsible for any errors or omissions as a result of using this reference guide.



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