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PRODUCT
CATALOG

The Power of Reliability

PRODUCT CATALOG

CONTENTS

For detailed product specifications and data sheets, visit www.ict-power.com.

DC POWER SYSTEMS

MPS ULTRA

MODULAR POWER SERIES

DESCRIPTION

2RU redundant, hot swappable DC power system up to 12 kW. Flexible configurations allow you to select the right system for your needs. Optional battery management, LVD and IP-managed load distribution outputs.

1RU redundant, hot swappable DC power system up to 6 kW. Flexible configurations allow you to select the right system for your needs. Optional battery management, LVD and IP-managed load distribution outputs.

RATINGS

▸ 100–300 VAC input
▸ 12, 24 or 48 VDC output
▸ 90–95% efficiency
▸ -30°C to +60°C operating temp.
▸ CSA/UL/CE approved

▸ 100–300 VAC input
▸ 12, 24 or 48 VDC output
▸ 90–95% efficiency
▸ -30°C to +60°C operating temp.
▸ CSA/UL/CE approved

FEATURES

▸ TCP/IP remote Ethernet communications
▸ Up to 12 IP-managed load outputs can be power cycled individually
▸ Hot swappable 700 W, 1000 W, or 1500 W, high efficiency 12, 24 or 48 VDC power modules (1000 & 1500 W: 24 & 48 V only)
▸ Up to 12 kW of power with N+1 redundancy in a 2RU shelf
▸ 150 A Low Voltage Disconnect
▸ Dual 100 A battery disconnect breakers
▸ Optional battery management module and load distribution module
▸ Supports SNMP v1/2/3, HTTPS and TLS 1.3 for enhanced security
▸ Lithium-ion battery support

▸ TCP/IP remote Ethernet communications
▸ Up to eight IP-managed load outputs can be power cycled individually
▸ Hot swappable 700 W, 1000 W, or 1500 W, high efficiency 12, 24, or +/-48 VDC power modules and battery management (1000 W &1500 W: 24 & 48 V only)
▸ Up to 6 kW of power with N+1 redundancy in a 1RU shelf
▸ Second shelf can be added for higher power applications
▸ Optional battery management module and load distribution module
▸ Supports SNMP v1/2/3, HTTPS and TLS 1.3 for enhanced security
▸ Lithium-ion battery support

APPLICATION EXAMPLES

▸ Fiber Networks
▸ Fixed wireless broadband
▸ Radio Access Networks
▸ Land mobile radio

▸ Fiber Networks
▸ Fixed wireless broadband
▸ Radio Access Networks
▸ Land mobile radio

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HYBRID ULTRA

DESCRIPTION

2RU redundant, hot swappable DC power system up to 7.5 kW output with two DC output voltages. Integrated battery management, LVD and IP-managed load distribution outputs.

RATINGS

▸ 100–300 VAC input
▸ 24 or 48 VDC primary voltage output
▸ 12 or 24 VDC secondary voltage output
▸ 90–95% efficiency
▸ -30°C to +60°C operating temp.
▸ CSA/UL/CE approved

FEATURES

▸ Integrated 700 W, 12-volt or 24-volt DC converter for mixed voltages requirements
▸ TCP/IP remote Ethernet communications
▸ Up to five 700 W, 1000 W, or 1500 W, high efficiency 24 or 48 VDC hot swappable power modules
▸ Up to eight IP-managed load outputs can be power cycled individually
▸ 150 A Low Voltage Disconnect
▸ Dual 100 A battery disconnect breakers
▸ Advanced battery management
▸ Supports SNMP v1/2/3, HTTPS and TLS 1.3 for enhanced security
▸ Lithium-ion battery support

APPLICATION EXAMPLES

▸ Fiber Networks
▸ Fixed wireless broadband
▸ Radio Access Networks
▸ Land mobile radio

HYBRID POWER SERIES

DESCRIPTION

1RU redundant, hot swappable DC power system up to 3 kW with two DC output voltages. Integrated battery management with LVD.

RATINGS

▸ 100–300 VAC input
▸ 24 or 48 VDC primary voltage output
▸ 12 or 24 VDC secondary voltage output
▸ 90–95% efficiency
▸ -30°C to +60°C operating temp.
▸ CSA/UL/CE approved

FEATURES

▸ Integrated 700 W,12-volt or 24-volt DC converter for mixed voltages requirements
▸ TCP/IP remote Ethernet communications
▸ One or two hot swappable 700 W, 1000 W, or 1500 W, high efficiency 24 or 48 VDC power modules
▸ User adjustable output voltages and battery charge current limit
▸ 150 A Low Voltage Disconnect
▸ Single or dual 100 A battery disconnect breakers
▸ Advanced battery management
▸ Supports SNMP v1/2/3, HTTPS and TLS 1.3 for enhanced security
▸ Lithium-ion battery support

APPLICATION EXAMPLES

▸ Fiber Networks
▸ Fixed wireless broadband
▸ Radio Access Networks
▸ Land mobile radio

DC POWER SUPPLIES

PLATINUM SERIES

PRO SERIES

DESCRIPTION

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

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

RATINGS

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

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

FEATURES

▶ 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 TLS 1.3 for enhanced security
▶ Lithium-ion battery support

▶ Fast and easy to install and use
▶ Form C alarm contacts
▶ Remote shutdown terminal
▶ Battery Backup and Low Voltage Disconnect option available with selectable battery charge current

APPLICATION EXAMPLES

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ DAS
▶ Industrial power applications
▶ Land mobile radio

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ In-building DC power
▶ Industrial power applications
▶ Land mobile radio

DIN SERIES POWER SUPPLY

DIN SERIES POWER DISTRIBUTION UNIT

DESCRIPTION

DIN-rail mount, 360-watt or 480-watt DC power supply with integrated battery charging with LVD, designed to be used in 24- or 48-volt DC applications. When combined with the DIN Series power distribution unit, remote monitoring and control is available using a secure, easy-to-use web-browser interface.

DIN-rail mount, single-bus DC distribution module designed to be used in 12-, 24- or 48-volt DC applications. It includes a secure, easy-to-use web-browser interface, which provides remote power monitoring, power control, and alarm reporting over an Ethernet link, along with SNMP support for integration into your network management system.

RATINGS

▶ 360 W or 480 W output
▶ 24 or 48 VDC output
▶ 90–95% efficiency
▶ -30°C to +60°C operating temp.

▶ 60 A continuous system current rating
▶ Input voltage range from 10 to 60 VDC
▶ Six GMT fused outputs: 15 A max
▶ -20°C to +60°C operating temp.
▶ CE approved

FEATURES

▶ Battery backup terminals with LVD and adjustable battery charge current limit
▶ Temperature compensated charging
▶ Form C alarm contacts
▶ Communications link provides remote monitoring and control capabilities (only when used with ICT DIN Series power distribution unit)

▶ TCP/IP remote management and power control of individual outputs
▶ Supports +12, +24, and +/-48 volts DC applications
▶ Form C alarm contacts
▶ HTTPS, SMTP, SNMP protocols supported
▶ Front-mounted fuses with LED indicators when fuse is blown

APPLICATION EXAMPLES

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ Internet of Things (IoT)
▶ SCADA
▶ Security and surveillance
▶ Off-grid / Solar sites
▶ Industrial DC power

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DC POWER DISTRIBUTION

ENERGY MANAGER SERIES

10/10 GMT FUSE PANEL

DESCRIPTION

2RU dual-feed solution for applications requiring remote monitoring and power control of up to 12 individual loads. The on-board TCP/IP and web server allow for remote management and power control of system and individual outputs.

1RU dual bus solution for applications requiring remote monitoring and power control of up to 20 individual loads. The on-board TCP/IP and web server allow for remote management and power control of system and individual outputs. Available with GMT fuses.

RATINGS

▶ 300 A peak / 150 A per bus current rating
▶ -48 VDC applications
▶ 12 outputs (6 per bus): 50 A max
▶ -30°C to +60°C operating temp.
▶ CSA/CE approved

▶ 200 A peak / 100 A per bus current rating
▶ 24 or +/-48 VDC applications
▶ 10 outputs per bus: 20 A max
▶ -20°C to +60°C operating temp.

FEATURES

▶ TCP/IP remote management and power control of individual outputs
▶ 12 fully managed outputs per bus
▶ Independent Form C alarm contacts for each bus
▶ Mixed voltages and polarity support
▶ HTTPS, SMTP, SNMP protocols supported
▶ Easy to use Graphical User Interface
▶ On-board web server requires no software to maintain
▶ Convection cooled

▶ TCP/IP remote management and power control of individual outputs
▶ 10 fully managed outputs per bus
▶ Independent Form C alarm contacts for each bus
▶ Mixed voltages and polarity support
▶ HTTPS, SMTP, SNMP protocols supported
▶ Easy to use Graphical User Interface
▶ On-board web server requires no software to maintain
▶ Front panel LED indicators for fuse status

APPLICATION EXAMPLES

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ Radio Access Networks
▶ Small Cell/LTE/5G
▶ Fiber Networks
▶ Cable Headend
▶ Data Centers

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ Radio Access Networks
▶ Small Cell/LTE/5G

6/6 BREAKER PANEL

4/4 FRONT ACCESS BREAKER PANEL

DESCRIPTION

1RU dual bus solution for applications requiring remote monitoring and power control of up to 12 individual loads. The on-board TCP/IP (optional) and web server allow for remote management and power control of system and individual outputs. Available with hydraulic-mechanical circuit breakers.

1RU dual bus DC load distribution panels designed to be used in 12-, 24- or 48-volt DC applications. All connections are on the front panel for when installations restrict access to the rear.

RATINGS

▸ 200 A peak / 100 A per bus current rating

▸ 12, 24 or +/-48 VDC applications

▸ Six outputs per bus: 25 A max for 12/24 VDC, 20 A max for 48 VDC

▸ -20°C to +60°C operating temp.

▸ CE approved

▸ 240 A peak / 120 A per bus current rating

▸ 12, 24 or +/-48 VDC applications

▸ Four outputs per bus: 25 A max

▸ -20°C to +60°C operating temp.

▸ CE approved

FEATURES

▸ TCP/IP remote management and power control of individual outputs

▸ Six fully managed outputs per bus

▸ Independent Form C alarm contacts for each bus

▸ Mixed voltages and polarity support

▸ HTTPS, SMTP, SNMP protocols supported

▸ Easy to use Graphical User Interface

▸ On-board web server requires no software to maintain

▸ TCP/IP remote management and power control of individual outputs

▸ Four fully managed outputs per bus

▸ Independent Form C alarm contacts for each bus

▸ Mixed voltages and polarity support

▸ HTTPS, SMTP, SNMP protocols supported

▸ Easy to use Graphical User Interface

▸ On-board web server requires no software to maintain

APPLICATION EXAMPLES

▸ Wireless communications sites

▸ Fixed wireless broadband

▸ Radio Access Networks

▸ Small Cell/LTE/5G

▸ Land mobile radio

▸ Wireless communications sites

▸ Fixed wireless broadband

▸ Radio Access Networks

▸ Small Cell/LTE/5G

SINGLE BUS FUSE PANELS

DESCRIPTION

1RU 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.

RATINGS

▶ 180 A peak system current rating
▶ 12 or 24 VDC applications
▶ ATO fused models with nine outputs (25 A max. each) and three J-Case outputs (40 A max. each)
▶ -20°C to +60°C operating temp.

FEATURES

▶ TCP/IP remote management and power control of individual outputs
▶ 12 fully managed outputs
▶ Form C alarm contacts
▶ HTTPS, SMTP, SNMP protocols supported
▶ Easy to use Graphical User Interface
▶ On-board web server requires no software to maintain

APPLICATION EXAMPLES

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ In-building DC power

DC to AC INVERTERS

SITE INVERTER SERIES

SINE WAVE SERIES

DESCRIPTION

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 optimized for providing AC power to components at DC powered communication and network sites.

RATINGS

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

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

FEATURES

▶ >90% efficiency
▶ 4 W 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

▶ >90% efficiency
▶ Extremely low idle current draw
▶ -30°C to +60°C operating temp.
▶ Front and rear AC wiring accessibility
▶ Small form factor
▶ TCP/IP Ethernet for remote monitoring and power cycling
▶ Fast transfer switch shifts between DC and AC power sources

OPTIONS

▶ 1RU, 19" rack mount kit (shown above) holds one, two or three inverters

▶ 2RU, 19" rack mount kit for one or two units
▶ DC wiring box and cover

APPLICATION EXAMPLES

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ Radio Access Networks
▶ RF, broadband, network power

▶ Wireless communications sites
▶ Fixed wireless broadband
▶ In-building DC power
▶ RF, broadband, network power

DESKTOP POWER SUPPLIES

INTELLICHARGE SERIES

BACKUP SERIES

COMM SERIES

DESCRIPTION

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

Provides hours of DC voltage backup for mission critical radios. Includes 14.4 amp-hour battery with LVD and revert capability in one integrated solution.

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

RATINGS

▶ 360 W output
▶ 12, 24 or 48 VDC output
▶ 100–265 VAC PFC input
▶ CSA/UL/CE approved

▶ 240 W (17 A continuous)
▶ 12 VDC output
▶ 115 VAC input

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

FEATURES

▶ 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

▶ Internal 14.4 Ah battery provides several hours of backup run time (depending on radio model and transmit times)
▶ External battery protection fuse
▶ Rugged terminal block connectors
▶ Zero transfer time when AC fails

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

OPTIONS

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

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

APPLICATION EXAMPLES

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

▶ Dispatch centers
▶ Schools
▶ Mines
▶ Utilities

▶ Wireless communications
▶ LMR base stations

ISOLATED SERIES 2

INDUSTRIAL POWER SERIES

DESCRIPTION

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

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

RATINGS

▶ 5 A to 35 A current ratings
▶ Output voltage of 12, 24, 48 VDC
▶ Input voltage ranges from 12 to 60 VDC

▶ 10 A to 40 A current ratings
▶ Output voltage of 12 V
▶ Input voltage ranges from 20 to 30 VDC

FEATURES

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

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

OPTIONS

▶ 2RU 19" rack mount kit (holds up to three converters)

▶ 2RU 19" rack mount kit (holds up to three converters)

APPLICATION EXAMPLES

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

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

CHASSIS MOUNT SERIES

DESCRIPTION

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

RATINGS

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

FEATURES

▸ 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

APPLICATION EXAMPLES

▸ Outdoor power systems
▸ Integrated radio transmitters
▸ DAS
▸ Backhaul

ACCESSORIES

CIRCUIT BREAKERS

DESCRIPTION

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

RATINGS

▶ Available in 5 A, 10 A, 15 A, 25 A, and 30 A
▶ Blanking plate available for unused positions

MINIATURE CIRCUIT BREAKERS

Miniature Circuit Breakers to support ICT's Energy Manager Series.

▶ Available in 20 A, 32 A, 40 A, 50 A, and 63 A
▶ 80 VDC rated

GMT FUSES

GMT Fuses to support ICT's intelligent DC distribution panels which utilize GMT fuse protection devices.

▶ Available in 5 A, 10 A, and 15 A
▶ 60 VDC rated

RACK MOUNT TRAYS

DESCRIPTION

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

RATINGS

▶ 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

CABLE MANAGEMENT ASSEMBLY

Cable management assembly (front or rear mounted) for the Energy Manager Series

23 TO 19 INCH 1RU ADAPTER KIT

Allows ICT 1RU 19 inch rack mount products to be mounted in a 23 inch equipment rack.

▶ Constructed in 14-gauge steel
▶ EIA-310-D compliant tapped 10-32 for 19″ mounting
▶ Finished in smooth black powder paint

NOISE FILTERS

BATTERY TEMPERATURE SENSOR

DESCRIPTION

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

Provides temperature compensated charging for ICT Intelli-Charge, Platinum and Modular Power Series.

RATINGS

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

▶ 3m (10ft) cable
▶ Included adhesive backed plastic clip for affixing probe to battery case

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, F6400, F7510, F7520	ICT-ICO12		ICT12-20

KENWOOD			
TK5720/5820, TK7160/8160, TK7180/8180, NX-3720, NX-3820, NX-3920, NX-3921	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 2500, APX 4500	ICT-MOT17		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.

ICT *The Power of Reliability*