



DIGITAL SERIES

1RU DC Power Supply With Digital Control



| | |
|-----|--------------|
| 12V | 100A 50A |
| 24V | 50A 25A |
| 48V | 25A 12.5A |



ICT Digital Series DC power supplies bring a new level of performance, functionality, and management to the DC power market. The 1RU Digital Series provides 675 or 1350 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 including radios, repeaters, trunking systems, paging systems, RF amplifiers, microwave, WiMax, routers, bridges, multiplexers, and VOIP. The Digital Series is well-suited for industrial power applications including security systems, transportation, process control, DC in-building power, and automated test systems.

- ▶ 675 or 1350 watts of output power in a 1RU rack mount chassis with 90 to 93% efficiency over a broad power range.
- ▶ Wide-ranging power factor corrected AC input saves energy.
- ▶ Output voltage and current limit can be easily and accurately adjusted using the Intelligent Power Control interface on the password-protected front panel.
- ▶ Optional factory-installed TCP/IP Ethernet option provides complete and easy-to-use remote monitoring and control of the power supply using its built-in web server.
- ▶ Optional factory-installed battery backup and LVD with adjustable disconnect and reconnect voltage setpoints.
- ▶ Up to six Digital Series power supplies can be connected quickly and easily using the ICT Smart Parallel function to provide up to 8kW of output power.

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

Innovation

- ▶ Fast, accurate digital control of output voltage and current limit from the password protected front panel
- ▶ Remote management option using TCP/IP and built-in web server allows remote monitoring, firmware upgrades, password protected control of DC outputs, output voltage and current limit settings
- ▶ Battery backup option provides adjustable LVD disconnect and reconnect setpoints from the front panel or remotely with the TCP/IP option

High Reliability

- ▶ Developed and manufactured in North America by ICT
- ▶ Designed around the highest quality components available
- ▶ Every system is fully tested and burned-in at the factory
- ▶ Output bus bars allow safe and solid DC connections
- ▶ Designed to CSA, FCC Class B
- ▶ Two year warranty

Flexibility

- ▶ Configure To Order (CTO) as base model or with any combination of Battery Backup/LVD and TCP/IP remote management options to suit your installation requirements
- ▶ Form C alarm contacts and remote on/off are standard
- ▶ Can operate as a DC power supply for running loads or for dedicated battery charging
- ▶ Units can be added in parallel to grow system power as site requirements increase

Performance

- ▶ 675 or 1350 watts of output power for demanding applications
- ▶ 90 to 93% efficiency
- ▶ Power factor corrected AC input voltage range of 100-265VAC
- ▶ -30C to +60C operating temperature range
- ▶ Up to six Digital Series power supplies can be paralleled with Smart Parallel Operation for up to 8kW of power

Power Specifications

| | |
|---------------------------------|----------------|
| Continuous Output Current - 12V | 100A, 50A |
| Continuous Output Current - 24V | 50A, 25A |
| Continuous Output Current - 48V | 25A, 12.5A |
| 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 - 30.0VDC |
| Output Voltage Range - 48V | 46.0 - 60.0VDC |
| Input Voltage Range | 100-265VAC |
| 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 +60°C <small>Derate 2%/°C > 50°C.</small> |
| Temperature Controlled Fans (front to rear airflow) | |

Options

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|------------------|--|
| Battery Backup | Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage disconnect with user definable disconnect and reconnect voltage setpoints. |
| TCP/IP Interface | 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. |
| Jumper Cable | Allows Smart Parallel Operation with automatic load sharing when two or more (max. 6) Digital Series power supplies are paralleled together. (Every pair of units requires a jumper cable. Feature requires TCP/IP option to be installed.) Part no. ICT-JMP |
| Bus Bar Straps | Allows easy connection of output bus bars when installing two or more Digital Series in parallel. (One set for every two power supplies required.) Part no. ICT-PAR |

Ordering Information - All models are Configured To Order (CTO) at the factory. Options must be selected at time of ordering (except ICT-JMP and ICT-PAR)

| DESCRIPTION | POWER | 12VDC Output | 24VDC Output | 48VDC Output |
|---|-------|---------------|---------------|---------------|
| Digital Series Power Supply, no options installed. | 1350W | ICT1200-12S | ICT1200-24S | ICT1200-48S |
| | 675W | ICT600-12S | ICT600-24S | ICT600-48S |
| Power supply with factory-installed battery backup terminal, automatic revert and low voltage disconnect with adjustable setpoints. | 1350W | ICT1200-12SB | ICT1200-24SB | ICT1200-48SB |
| | 675W | ICT600-12SB | ICT600-24SB | ICT600-48SB |
| Power supply with factory-installed TCP/IP Ethernet communications port for remote monitoring and control with built-in web server. | 1350W | ICT1200-12SC | ICT1200-24SC | ICT1200-48SC |
| | 675W | ICT600-12SC | ICT600-24SC | ICT600-48SC |
| Power supply with factory-installed battery backup and TCP/IP Ethernet options. | 1350W | ICT1200-12SBC | ICT1200-24SBC | ICT1200-48SBC |
| | 675W | ICT600-12SBC | ICT600-24SBC | ICT600-48SBC |

Mechanical

| | |
|-------------------------------|----------------------------------|
| Form Factor | 1RU - 19", adjustable mounting |
| Dimensions (inches) L x W x H | 16.5 x 19.0 x 1.72 |
| Weight (lbs/kg) | 17 lbs / 7.7 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) |

Standards

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

Protection Features

Over-temperature, over-current shutdown, input and output over-voltage, current limit @ 105%

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) |

(a) when configured for Smart Parallel Operation
(b) with Battery Backup/LVD option installed

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