

DIGITAL SERIES

1RU DC Power Supply With Digital Control





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

TECHNICAL SPECIFICATIONS

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 -30°C to +60°C Operating Temperature Range -30°C to +60°C Operating Temperature Range -30°C to +60°C Operating Temperature Range -30°C to +60°C Output Ripel operation Adjust LVD (a) when configured for Smart Parallel Operation Adjust LVD	72 #8 - #16 AWG 3" Nuts & Washers (#16 to #24 AWG) bliant, CE tput over-voltage,
Continuous Output Current - 24V 50A, 25A Dimensions (inches) L x W x H 16.5 x 19.0 x 1.7 Continuous Output Current - 48V 25A, 12.5A Weight (lbs/kg) 17 lbs / 7.7 kg Efficiency (typical) - 12V 90% @ 220VAC AC Input Connectors Busbars with 3/6 Efficiency (typical) - 24V 91% @ 220VAC DC Output Connectors Busbars with 3/6 Efficiency (typical) - 48V 93% @ 220VAC Remote Alarm Connectors Terminal Block, 0 Output Voltage Range - 12V 11.5 - 15.5VDC Standards Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Over-temperature, over-current shutdown, input and out current limit @ 105% Power Factor (typical) 0.99 Warranty Over-temperature, over-current shutdown, input and out current limit @ 105% Set/enter p Output Ripple - 12V 30mV RMS Intelligent Control Features - Front Panel DISPLAY READINGS ADJUSTMENT Output Ripple - 24V 30mV RMS DESPLAY READINGS ADJUSTMENT Output Ripple - 24V 30mV RMS DISPLAY READINGS ADJUSTMENT Diselar 2W Connect Kairms statu	72 #8 - #16 AWG 3" Nuts & Washers (#16 to #24 AWG) bliant, CE tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit 0 disconnect and
Continuous Output Current - 48V 25A, 12.5A Weight (lbs/kg) 17 lbs / 7.7 kg Efficiency (typical) - 12V 90% @ 220VAC AC Input Connectors Busbars with 3/6 Efficiency (typical) - 24V 91% @ 220VAC C Output Connectors Busbars with 3/6 Efficiency (typical) - 48V 93% @ 220VAC Remote Alarm Connectors Terminal Block Output Voltage Range - 12V 11.5 - 15.5VDC Standards Standards Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Over-temperature, over-current shutdown, input and output Voltage Range 100-265VAC Over-temperature, over-current shutdown, input and output remet limit @ 105% Power Factor (typical) 0.99 Warranty Over-temperature, over-current shutdown, input and output remet limit @ 105% Output Ripple - 12V 30mV RMS Intelligent Control Features - Front Panel Output Ripple - 24V 30mV RMS DISPLAY READINGS ADJUSTMENT Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Charms status 0.1% DC output voltage Adjust totp Operating Temperature Range -30°C to +60°C Parallel status ^(a) Adjust totp Operating	#8 - #16 AWG B" Nuts & Washers (#16 to #24 AWG) bliant, CE tput over-voltage, tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit D disconnect and
Efficiency (typical) - 12V 90% @ 220VAC AC Input Connectors Terminal Block, Efficiency (typical) - 24V 91% @ 220VAC DC Output Connectors Busbars with 3/8 Efficiency (typical) - 48V 93% @ 220VAC Remote Alarm Connectors Terminal Block, Output Voltage Range - 12V 11.5 - 15.5VDC Standards Coutput Voltage Range - 24V 23.0 - 30.0VDC Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Protection Features Nput Voltage Range 100-265VAC Over-temperature, over-current shutdown, input and out current limit @ 105% Over-temperature, over-current shutdown, input and out current limit @ 105% Power Factor (typical) 0.99 Warranty Output Voltage Output Connectors ADJUSTMENT Output Ripple - 12V 30mV RMS Two years Output current Adjust Output Connector Adjust Output Connector Output Ripple - 48V 60mV RMS DC output voltage Turn DC ou Output current Adjust Output Connector Coda Regulation 0.1% DC output voltage Turn DC ou Adjust Output Connector Adjust Output Connector Operating Temperature Range -30°C to +60°C Dente 24v°C > 50°C. <td>B" Nuts & Washers (#16 to #24 AWG) bliant, CE tput over-voltage, tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit D disconnect and</td>	B" Nuts & Washers (#16 to #24 AWG) bliant, CE tput over-voltage, tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit D disconnect and
Efficiency (typical) - 24V 91% @ 220VAC DC Output Connectors Busbars with 3/8 Efficiency (typical) - 48V 93% @ 220VAC Remote Alarm Connectors Terminal Block (typical) Output Voltage Range - 12V 11.5 - 15.5VDC Standards CSA22.2 No. 60950-1, FCC Class B, ROHS comp Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Protection Features Output Voltage Range 100-265VAC Over-temperature, over-current shutdown, input and out current limit @ 105% Over-temperature, over-current shutdown, input and out current limit @ 105% Power Factor (typical) 0.99 Warranty Output Ripple - 12V 30mV RMS Intelligent Control Features - Front Panel DISPLAY READINGS ADJUSTMENT Output Ripple - 24V 30mV RMS DISPLAY READINGS ADJUSTMENT Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Cad Regulation 0.1% DISPLAY READINGS Adjust to the adjust output output current Operating Temperature Range -30°C to +60°C Parallel status (a) Adjust output output to the configured for Smart Parallel Operation Adjust output output to the Battery Batter Depration Options Eactory installed third terminal output for float charging	B" Nuts & Washers (#16 to #24 AWG) bliant, CE tput over-voltage, tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit D disconnect and
Efficiency (typical) - 48V 93% @ 220VAC Remote Alarm Connectors Terminal Block (Output Voltage Range - 12V 11.5 - 15.5VDC Standards Coutput Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Output Voltage Range - 48V 46.0 - 60.0VDC Protection Features Over-temperature, over-current shutdown, input and out current limit @ 105% Power Factor (typical) 0.99 Warranty Output Ripple - 12V 30mV RMS Two years Output Ripple - 24V 30mV RMS Intelligent Control Features - Front Paul Output Ripple - 24V 30mV RMS DISPLAY READINGS ADJUSTMENT Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Coda Regulation 0.5% Output current Adjust DC or Operating Temperature Range -30°C to +60°C Parallel status ^(a) Adjust DC or (a) when configured for Smart Parallel Operation (b) with Battery Batter	(#16 to #24 AWG) bliant, CE tput over-voltage, tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit o disconnect and
Control of (splich) Control (splich) Standards Output Voltage Range - 12V 11.5 - 15.5VDC Standards Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Output Voltage Range - 48V 46.0 - 60.0VDC Protection Features Input Voltage Range 100-265VAC Over-temperature, over-current shutdown, input and out current limit @ 105% Power Factor (typical) 0.99 Warranty Output Ripple - 12V 30mV RMS Two years Output Ripple - 24V 30mV RMS Intelligent Control Features - Front Panel Output Ripple - 48V 60mV RMS AC input voltage Line Regulation 0.1% DisPLAY READINGS Load Regulation 0.5% Output voltage Operating Temperature Range -30°C to +60°C Parallel status ^(a) Lember 2Wr0 - 50°C Parallel status ^(a) Adjust outp (a) when configured for Smart Parallel Operation (b) with Battery Ba	Its AVAILABLE TS AVAILABLE Dassword utputs on and off output voltage but current limit
Output Voltage Range - 24V 23.0 - 30.0VDC CSA22.2 No. 60950-1, FCC Class B, ROHS comp Output Voltage Range - 48V 46.0 - 60.0VDC Protection Features Input Voltage Range 100-265VAC Over-temperature, over-current shutdown, input and out current limit @ 105% Power Factor (typical) 0.99 Warranty Output Ripple - 12V 30mV RMS Two years Output Ripple - 24V 30mV RMS Intelligent Control Features - Front Panel Output Ripple - 48V 60mV RMS Intelligent Control Features - Front Panel Output Ripple - 48V 60mV RMS DISPLAY READINGS Line Regulation 0.1% DC output voltage Load Regulation 0.5% Output current Operating Temperature Range -30°C to +60°C Parallel status ^(a) Derate 26/°C > 50°C. Parallel status ^(a) Adjust outp (a) when configured for Smart Parallel Operation (b) with Battery Battery Battery Battery Battery Batteries. Provides automatic revert function. Includes low voltage did	tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit 0 disconnect and
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 - 24V 30mV RMS Output Ripple - 48V 60mV RMS Line Regulation 0.1% Load Regulation 0.5% Operating Temperature Range -30°C to +60°C Dente 2%vrC > 50°C. -30°C to +60°C Parallel status (a) Adjust output Ripute of Smart Parallel Operation Options Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage diteries. Provides automatic revert function. Includes low vo	tput over-voltage, TS AVAILABLE bassword utputs on and off output voltage but current limit 0 disconnect and
Input Voltage Range 100-265VAC Input Voltage Range 50/60Hz 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 0.5% Operating Temperature Range -30°C to +60°C Derate 2%/°C > 50°C. Temperature Controlled Fans (front to rear airflow) -30°C to folo ct perators Options Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage dit	TS AVAILABLE bassword utputs on and off output voltage but current limit 0 disconnect and
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 0.5% Operating Temperature Range -30°C to +60°C Derate 2%/°C > 50°C. Parallel status (a) Adjust LVD reconnect V (a) when configured for Smart Parallel Operation Adjust LVD reconnect V Options Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage difference in the status of the status	TS AVAILABLE bassword utputs on and off output voltage but current limit 0 disconnect and
Power Factor (typical) 0.99 Varranty Output Ripple - 12V 30mV RMS Two years Output Ripple - 24V 30mV RMS Intelligent Control Features - Front Panel Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Line Regulation 0.1% DC output voltage Turn DC output voltage Load Regulation 0.5% Output current Adjust DC output voltage Operating Temperature Range -30°C to +60°C Parallel status (a) Adjust LVD reconfigured for Smart Parallel Operation Options Eattery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage diteries	password utputs on and off output voltage out current limit disconnect and
Output Ripple - 12V 30mV RMS Two years Output Ripple - 24V 30mV RMS Intelligent Control Features - Front Panel Output Ripple - 48V 60mV RMS DISPLAY READINGS ADJUSTMENT Line Regulation 0.1% DC output voltage Turn DC output voltage Load Regulation 0.5% Output current Adjust DC output voltage Operating Temperature Range -30°C to +60°C Parallel status ^(a) Adjust LVD reconnect voltage (a) when configured for Smart Parallel Operation (b) with Battery Backup Adjust tort for float charging batteries. Provides automatic revert function. Includes low voltage diteries.	password utputs on and off output voltage out current limit disconnect and
Output Ripple - 24V 30mV RMS Output Ripple - 48V 60mV RMS Line Regulation 0.1% Load Regulation 0.5% Comport of the provided and the prov	password utputs on and off output voltage out current limit disconnect and
Output Ripple - 48V 60mV RMS Line Regulation 0.1% Load Regulation 0.5% Environment 0.5% Operating Temperature Range -30°C to +60°C Derate 2%/°C > 50°C. Temperature Controlled Fans (front to rear airflow) Parallel status ^(a) Options Adjust LVD reconnect v Battery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage did	password utputs on and off output voltage out current limit disconnect and
Output Ripple - 48V 60mV RMS Line Regulation 0.1% Load Regulation 0.5% DC output voltage Turn DC output current Output current Alarms status Alarms status Adjust output current Adjust turb Adjust output current Alarms status Adjust output current Alarms status Adjust turb (a) when configured for Smart Parallel Operation (b) with Battery Backup	password utputs on and off output voltage out current limit disconnect and
Line Regulation 0.1% DC output voltage Turn DC output voltage Load Regulation 0.5% Output current Adjust DC output voltage Environment Alarms status Adjust output current Operating Temperature Range -30°C to +60°C Derate 2%/°C > 50°C. Parallel status ^(a) Adjust LVD reconnect (b) with Battery Backup Options Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage dit	utputs on and off output voltage out current limit) disconnect and
Load Regulation 0.5% Output current Adjust DC of Adjust DC of Adjust DC of Adjust output current Environment Alarms status Adjust DC of Adjust output current Operating Temperature Range -30°C to +60°C Derate 2%/°C > 50°C. Parallel status (a) (a) when configured for Smart Parallel Operation Adjust LVD reconnect of (b) with Battery Backup Options Battery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage ditertion.	output voltage out current limit) disconnect and
Environment Alarms status Adjust output for status (a) Operating Temperature Range -30°C to +60°C Parallel status (a) Adjust LVD Temperature Controlled Fans (front to rear airflow) (a) when configured for Smart Parallel Operation Adjust LVD Options Battery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage diteries.	out current limit disconnect and
Operating Temperature Range -30°C to +60°C Parallel status Adjust UVD Derate 2%/C > 50°C. Parallel status (a) when configured for Smart Parallel Operation Adjust UVD Coptions Pattery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage di Voltage di) disconnect and
Derate 2%/C > 50°C. Indication of category Indication of category Indication of category Temperature Controlled Fans (front to rear airflow) (a) when configured for Smart Parallel Operation (b) with Battery Backup Options Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage di	voltage set points ^{(t}
Options Battery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage di	
Battery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage di	ckup/LVD option installed
Battery Backup Factory installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage di definable disconnect and reconnect voltage setpoints.	
	isconnect with user
TCP/IP Interface Factory installed RJ45 Ethernet port with built-in web server and intuitive graphical user interface. Allows remote monitoring conditions. Remote management features include turning DC outputs off and on, adjusting output voltage and current-limit configuring Email alarm alerts. Interface is password protected.	g of power supply settings, and
Jumper Cable Allows Smart Parallel Operation with automatic load sharing when two or more (max. 6) Digital Series power supplies are participation (Every pair of units requires a jumper cable. Feature requires TCP/IP option to be installed.) Part no. ICT-JMP	aralleled together.
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 Part no. ICT-PAR	r supplies required.)
Ordering Information - All models are Configured To Order (CTO) at the factory. Options must be selected at time of ordering (except ICT	
Description Power 12VDC Output 24VDC Output	+/- 48VDC Outp
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 1350W ICT1200-12SB ICT1200-24SB	ICT1200-48SB
revert and low voltage disconnect with adjustable setpoints. 675W ICT600-12SB ICT600-24SB	ICT600-48SB
Power supply with factory-installed TCP/IP Ethernet communications port 1350W ICT1200-12SC ICT1200-24SC	ICT1200-48SC
for remote monitoring and control with built-in web server. 675W ICT600-12SC ICT600-24SC	ICT600-48SC
Power supply with factory-installed battery backup and TCP/IP Ethernet 1350W ICT1200-12SBC ICT1200-24SBC	
options.	ICT1200-48SBC

Page 2

800-317-008

