

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

	itions		Mechanie	cal		
Continuous Output Current - 12V		100A, 50A	Form Factor		1RU - 19", adjustable mounting	
Continuous Outp	ut Current - 24V	50A, 25A	Dimensions (inches) L x W x H		16.5 x 19.0 x 1.72	
Continuous Output Current - 48V		25A, 12.5A	Weight (Ibs/kg)		17 lbs / 7.7 kg	
Efficiency (typical) - 12V		90% @ 220VAC	AC Input Connectors		Terminal Block, #8 - #16 AWG	
Efficiency (typical) - 24V		91% @ 220VAC	DC Output Connectors		Busbars with 3/8" Nuts & Washers	
Efficiency (typical) - 48V		93% @ 220VAC	Remote Alarm Connectors		Terminal Block (#16 to #24 AWG)	
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 compliant, CE			liant CE
Output Voltage Range - 48V		46.0 - 60.0VDC	Protection Features			
Input Voltage Range		100-265VAC	Over-temperature, over-current shutdown, input and output over-voltage		put over-voltage	
Frequency Range		50/60Hz	current limit @ 105%		put over-voltage,	
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 - 4	8V	60mV RMS	DISPLAY READINGS		ADJUSTMENTS AVAILABLE	
Line Regulation		0.1%	AC input voltage		Set/enter password	
Load Regulation		0.5%	DC output voltage		Turn DC outputs on and off	
			Output current		Adjust DC output voltage	
Environment					Adjust output current limit Adjust LVD disconnect and	
Environment Operating Temp	perature Range	-30°C to +60°C	Alarms sta Parallel st			
Operating Temp	Ū.	-30°C to +60°C Derate 2%/C > 50°C.	Parallel st		Adjust LVD	
Operating Temp	perature Range ontrolled Fans (front to	Derate 2%/℃ > 50℃.	Parallel st	tatus ^(a)	Adjust LVD reconnect v	disconnect and
Operating Temp Temperature Cc	Ū.	Derate 2%/℃ > 50℃.	Parallel st	tatus ^(a)	Adjust LVD reconnect v	disconnect and voltage set points ^(b)
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