

RDC SERIES FlatPak™ 28 VDC POWER SYSTEM



WALL MOUNTED CONFIGURATION

STANDARD FEATURES:

- MIL-STD-704E, ARP 5015, DFS 400 and ISO 6858 Compliant
- Indoor/Outdoor (Hangar/Ramp) Use
- Automatic Input Line Monitoring
- Automatic Line Drop Compensation (ALDC)
- Emergency Mushroom "OFF" Switch
- Automatic Plug Head Regulation up to 60 Feet
- Built-in Maintenance Diagnostics
- Analog Control Panel
- Current Limit Adjust
- Output Voltage Meter and Ammeter
- Internal Elapsed Time Meter
- Front Panel Summary Fault Indicators

APPLICATION:

Since its beginning in 1960, Unitron has specialized in the design and development of reliable, solid-state power systems. Through an innovative design, advanced self-diagnostic systems (BITE) and modular construction, Unitron products assure maximum power availability and minimal repair time.

The FlatPak™ Series includes 28 VDC and 400 Hz converters designed for installation where space is limited. The units mount "flat" against a wall, and offer the smallest size to power-rating ratio in the industry.

The output power rating for the **28 VDC FlatPak™ Power System** is 600 amps continuous and 2000 amps start current. The unit is equipped with automatic line drop compensation to allow the use of cables up to 60 feet in length without reducing the voltage at the cable head. In addition, the FlatPak™ power system meets all National Electric Code (NEC) requirements for operation within a hangar environment.

In addition to fixed equipment, Unitron offers 400 Hz, 28 VDC and combination AC/DC units in mobile and towable configurations.

OPTIONS:

- Alternate Input Voltages Available (specify)
- Input Frequency 50 Hz
- DC Output Power Cable with Plug (available in 30 or 60 foot lengths)
- Front Panel Voltage Adjust ($\pm 15\%$)
- Automatic Aircraft Safety Disconnect
- Dual Output with Individual Safety Disconnect from Aircraft
- Alternate Mounting Configurations Available

ISO 9001



Registered to ISO 9001:2000

GENERAL SPECIFICATIONS

INPUT:

Voltage	480 volts, $\pm 10\%$, 3 ϕ , 3 wire plus ground
Frequency	60 Hz $\pm 10\%$
Phase Rotation	Any
Protection	Over/undervoltage, loss of phase, overcurrent, short circuit
Inrush Current	No greater than 100% of full load current

MECHANICAL:

Size:	Depth: 16 in. (406 mm.) Width: 25 in. (635 mm.) Height: 49 in. (1245 mm.)
-------	---

Weight:	360 lbs. (163 kgs.)
Construction:	Indoor/Outdoor
Cooling:	Forced Convection

ENVIRONMENTAL:

Acoustical Noise	65 dBA maximum at 5 feet
Temperature Range	-40°C to +55°C
EMI/RFI	Compatible with aircraft systems

OUTPUT:

Full Rated Load	600 amps continuous
Overload	125% for 7 minutes at 10% duty cycle
Engine Start Capacity	Adjustable up to 2000 amps for 20 seconds at 10% duty cycle
Voltage	28 VDC
Voltage Regulation	
<ul style="list-style-type: none"> ▪ 100% continuous rated load and $\pm 10\%$ input voltage ▪ No load to rated load with nominal input voltage ▪ Overload with nominal input voltage 	$\pm 0.05\%$ IAW ISO 6858 See start mode literature for Model RDC-620
Voltage Adjust	28 VDC $\pm 15\%$
Current Limit Adjust	200 to 2000 amps
Protection	Overload, short circuit, and over/undervoltage

FIGURE 1

