

**STANDARD FEATURES:**

- P55
- Certified to UL 1012
- 3 Phase, 380-480VAC Input
- Indoor/Outdoor (Hanger/Ramp) Use
- $\leq 5\%$ Input Current Distortion at max load
- Automatic Input Line Monitoring
- Advanced Integrated Display (AID™) Console
- 8000 Event Log / Diagnostics
- TCP/IP/Ethernet interface (Modbus)
- Internal Communication Port - US, RJ45 (ETHERNET), RS485 (Modbus), & RS232
- External Communication Port - USB
- 15% Automatic Line Drop Compensation
- Emergency Power "OFF" Switch
- 18-Inch Hazard Area Clearance
- No Break Power Transfer (NBPT) Comaptible
- I/O Voltage, Current, & Frequency Monitoring
- Elapsed Time Meter
- Sleep Mode
- Front Panel Voltage Adjust
- Front Panel Summary Fault Indicators

SPECIFICATIONS / STANDARDS

NFPA 70 (NEC 500)	ISO 6858
EN60079-10	UFGS 26 35 43
ISO 461-1/2	MIL-STD-1472
ISO 1540	MIL-STD-1472

MECHANICAL SPECIFICATIONS:

Weight:	340lbs. (154kg)
Enclosure:	NEMA 250 - Type 3SX
Cooling:	Forced Convection

APPLICATION:

Since its beging in 1960, Gentec has specialized in the design and development of reliable solid-state power system. Our PWM topographgy represents the most advanced design available in today's market. Self-diagnostic system (BITE) and modular construction, assure maximum power availability and minimal repair time.

The GT28DC Series includes lightweight 115/200VAC, 400Hz, 28VDC, and 270VDC mobile converters for aircraft ground power applications in the hangar or ramp area. With one of the lightest weight-to-power rating ratio in the market, all Gentec mobile units are easily maneuvered by a single person within the hangar enviroment.

Gentec's 28VDC mobile provides 425 or 600 amps continuous output power, with starting currents from 2000 amps and is capable of of running off of 50 or 60Hz sources. in addition , Gentec offers a combination AC/DC GPU. Which provides simultaneous 115/200VAC, 400Hz with 29VDC power from a signle unit

OPTIONS:

- Alternative 30 Input Voltage Range Available - 575-600VAC
- Various Convenience Outlets (Specify Voltage and Frequency)
- 50 or 100 Foot Input Power Cable (Pigtail)
- 9 or 12 Inch Top Cable Storage Rack
- DC Output Power Cable with Plug (upto 65' feet)
- Output Universal Aircraft Safety Interlock Circuit Disconnect (Single or Dual)
- External Communication Port - Ethernet
- Output Safety Disconnect
- Bench Top Voltage
- Input Auto Ranging
- $\leq 5\%$ Input Current Distortion At Max Load
- Alternate Mounting Configurations Available
- Custom Paint & Decals (Standard Color - White)
- CSA Certified
- CE Mark Certified
- Lockable Front Door
- Pneumatic Ramp Tires or Solid Core Casters
- UltraLite Upgrade Package

GENERAL SPECIFICATION**INPUT:**

Voltage	208-240V & 380-480V, + 10%, 3O/3 or 4 wireplus ground (Specify manual tap position at time of order)
Frequency	50 - 60 Hz $\pm$ 10%
Phase Rotation	Any
Rotation	Over/Undervoltage, loss of phase, overcurrent, short circuit, Voltage transient protection IAW IEEE, C62.41.1, Location Cat. B/C
Inrush Current	No greater than 100% of full load current

ENVIRONMENTAL:

Acoustical Noise	< 65 dBA maximum at 5 feet (1.5m)
Temperature Range	-40°C to +55°C
EMI/RFI	Compatible with aircraft system
Relative Humidity	10 - 95%, Non Condensing
Ingress of Water	Type 3SX, IP55

OUTPUT:**Model 420**

Full Load Rating	425 amps continues
Overload (10% duty cycle)	600 amps for 1 hour 1000 amps for 1 hour
Enigne Start Capacity (10% duty cycle)	Adjustable upto 1600A for 30 sec or 2000A for 10 sec

Model 620

Full Load Rating	600 amps continues
Overload (10% duty cycle)	1000 amps for 1 hour (10% duty cycle)
Enigne Start Capacity (10% duty cycle)	Adjustable upto 2000A for 30 sec (10% duty cycle)

Voltage* 28 VDC, 2 wire, grounded negative

Voltage Regulation

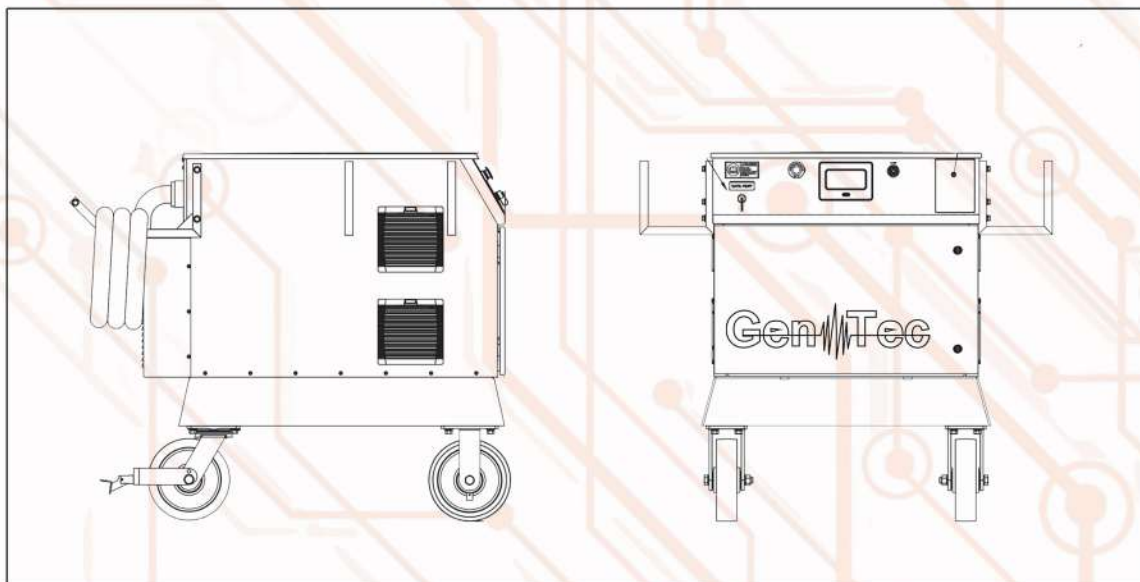
- 100% continuous rated load and + 10% input voltage $\pm$ 0.5%
- No load to rated load with nominal input voltage $\pm$ 0.5%

Voltage Adjust 28 VDC + 10%

Current Limit Adjust 150A to full related current

Protection Overload, short circuit,
over/undervoltage and safety
disconnect

Power Regulation 10%

FIGURE 1

Specifications subject to change without notice

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