

Solid State Power Units

Safely start engines, operate avionics, test equipment and environmental controls while aircraft engines are off line

Standard Features:

- Chopped rectifier with IGBT's (total harmonic distortion content at input < 3%)
- Fully-controlled IGBT inverter
- Pulse-width modulation
- Stable operating performance due to microprocessor control
- Distortion factor at linear load: < 3%
- Output Harmonic content L-L < 2% at linear, balanced load
- Constant output voltage for non-linear loads
- Voltage characteristics: steady state +/- 1%, dynamic < +/- 15% accuracy to MIL-Std. 704E
- Nominal frequency: 400 Hz +/- 0.1%
- Voltage adjustment range: +12 V/-5%
- Recovery time: <200ms
- Wave form: sinusoidal
- Phase angle: 120° +/- 1.5°
- Total diagnostics, monitoring, and fault memory on LCD (Liquid Crystal Display)
- Enclosure: NEMA, IP54
- 30 ft. (9.2 m) output cable on mobile unit; 60 ft. (18.3 m) output cable on stationary unit
- Available with single or dual output cables
- Finish: Powder Coat Light Gray



11C6650-1010

Battery Chargers

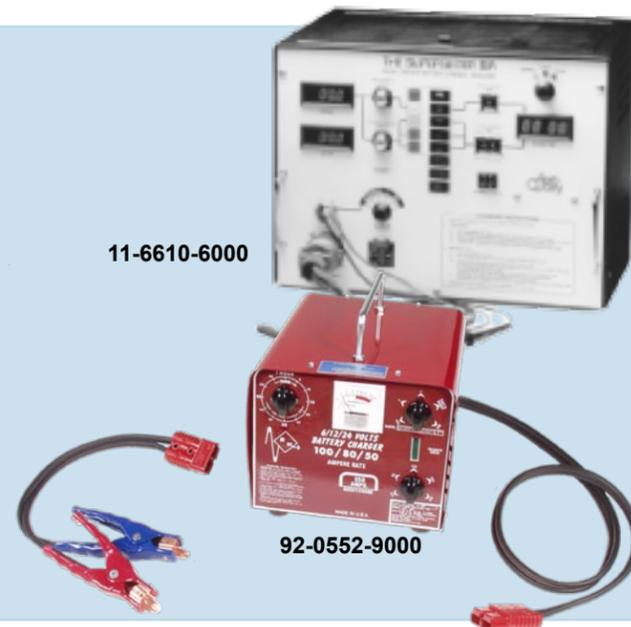
Nickel Cadmium Battery Charger/Analyzer

Standard Features:

- Fully automatic operation
- Solid state circuitry and state-of-the-art components
- Automatic battery temperature sensing
- Battery over temperature protection circuit
- Services from 1 to 50 cells simultaneously
- Capable of discharging two batteries (limited to 20 amps)
- Adjustable current flow from 0 to 50 amps
- Input voltages 208/230 AC 50 or 60 Hz

Battery Charger

60 Hz or 50 Hz



11-6610-6000

92-0552-9000

Power your aircraft with confidence!

Solid, dependable, maneuverable power units



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28.5 VDC Ground Power Units

28.5 VDC supply at the end of the cable every time!

Gasoline GPU

Standard Features:

- 150 amps continuous at 28 VDC, 1000 amps peak
- 6 heavy duty, maintenance free, lead acid batteries
- 2 cylinder, air cooled gasoline engine
- Internal battery charger recharges in minutes
- 20 ft (6.1 m) 4/0 output cable with AN 2551 connector aircraft DC plug
- 13 in (33 cm) tubeless pneumatic tires
- 13 gal (49 l) fuel tank
- 0 to 125° F (-18 to 52° C) maximum aircraft starting and electric service temperature range
- Oil-bathed flyweight type governor
- Illuminated instrument panel
- Hourmeter and Tachometer
- 0 to 300 GPU battery ammeter
- 0 to 2,000 aircraft ammeter
- 0 to 50 volt DC voltmeter
- Meets California Clean Air
- Aircraft power cable On/Off switch
- Electric starter switch
- 18 HP Tier II engine
- Finish: Durable Powder Coat Tronair Blue

Diesel GPU

Standard Features:

- Cable head voltage sensing ensures full power is provided to aircraft
- Automatic engine speed control ensures no droop of engine speed
- Cable head sensing interlock circuit
- Engine operates with Diesel or Jet A Fuel
- Durable, compact, maneuverable, trailer mounted unit
- Large cable trays for easy cable stowage
- 30 ft (9.1 m) output cable
- Large digital display voltmeter and ammeter
- Reduced noise levels via 2" sound insulating foam
- Alternator excitation test button for easy troubleshooting
- 24 volt control and starting circuitry for easy cold weather starting
- 2,000 amp peak, 800 amp output
- High efficiency single bearing alternator
- Adjustable peak output current limiting control
- Hand actuated rear drum brakes
- Tier II Cummins Engine
- Fifth wheel steering
- Large access doors
- Fire extinguisher
- Galvanized sheet metal to prevent corrosion
- Weather resistant steel canopy
- Running lights (112820C1, 112820C2)
- No fuel shut-off (112820C1, 112820C2)
- Alternator/fan belt failure shut-off (112820C2)
- Low coolant switch (112820C2)
- Skid mounted with fuel tank, suitable for fixed or truck mounted applications (112820CS)
- Finish: Durable Powder Coat Tronair Blue



28.5 VDC Solid State Rectifiers

These rectifiers offer the best performance and are the quietest in the industry

Standard Features:

- 2 year Tronair Platinum warranty
- Quietest performing unit, 20dB nominal
- Easy to change multi-volt transformer
- 25 KVA transformer ensures full power during engine starts
- Low voltage ripple <.2 VDC RMS
- **Duplex GFIC Weatherproof Receptacle with Cover:**
50 Hz Models - 20 A, 220 VAC
60 Hz Models - 20 A, 115 VAC
- Energy saving thermal control cooling fan
- Dual output models with individual controls
- Adjustable current limit output
- 50 ft (15.2 m) input cable (standard)
100 ft (30.5 m) input cable (optional)
- **DC Output Cables:** with AN2551 aircraft DC connector
Single Models - 20 ft (6.1 m)
Dual Models - 20 ft (6.1 m) and 50 ft (15.24 m)
(50 ft cable NOT used for starting engines)
- **Input:**
Voltage Range 200 - 480V +/- 10%
Power 25 KVA
Phase 3
Frequency 50/60 Hz
- **Output:**
Voltage 28.5 VDC
Current Limit (adjustable)..... 100-2000 max amps DC
Continuous Power 600 amps at 28.5 VDC
Starting Power 2000 amps max
- **Protection:**
Output Over/Under Voltage
Output Over Current
Input Phase Loss Detection, missing phase
Input Over/Under Voltage
Input Circuit Breaker 100 amps
Transformer Over Temperature
SCR Over Temperature
- **Thermal Protection:**
Cooling Fan - Temp controlled variable speed

- Low profile fits under most wings
- MIL-STD-704F, 18" NEC and CE compliant
- Sturdy all weather IP54 enclosure with cord hangers
- Long life LED indication lights that double as a diagnostic tool
- Simple to use controls
- Main disconnect switch for input power
- DC On/Off switch
- Emergency stop switch
- Large 9 in (23 cm) rubber rigid and lockable swivel casters for easy maneuverability
- Finish: Durable Powder Coat Tronair Blue



"Tronair has hit the mark, this rectifier has all the functionality packaged in a compact unit with the Tronair quality we have come to expect."

Service Center General Manager

VDC Battery Cart - 1,000 Amps Peak

Standard Features:

- Rugged welded steel construction
- 24 VDC output
- 20 ft (6.1 m) DC output cable with AN2551 connector
- Soft start protects avionics from voltage spikes
- 10 in (25 cm) pneumatic tires
- Contains (6) heavy duty, maintenance free lead acid batteries, with cold cranking amps each at 0° F (-18° C)
- Optional battery charger plugs directly into instrument panel
- Finish: Durable Powder Coat Tronair Blue



visit tronair.com for detailed information