

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

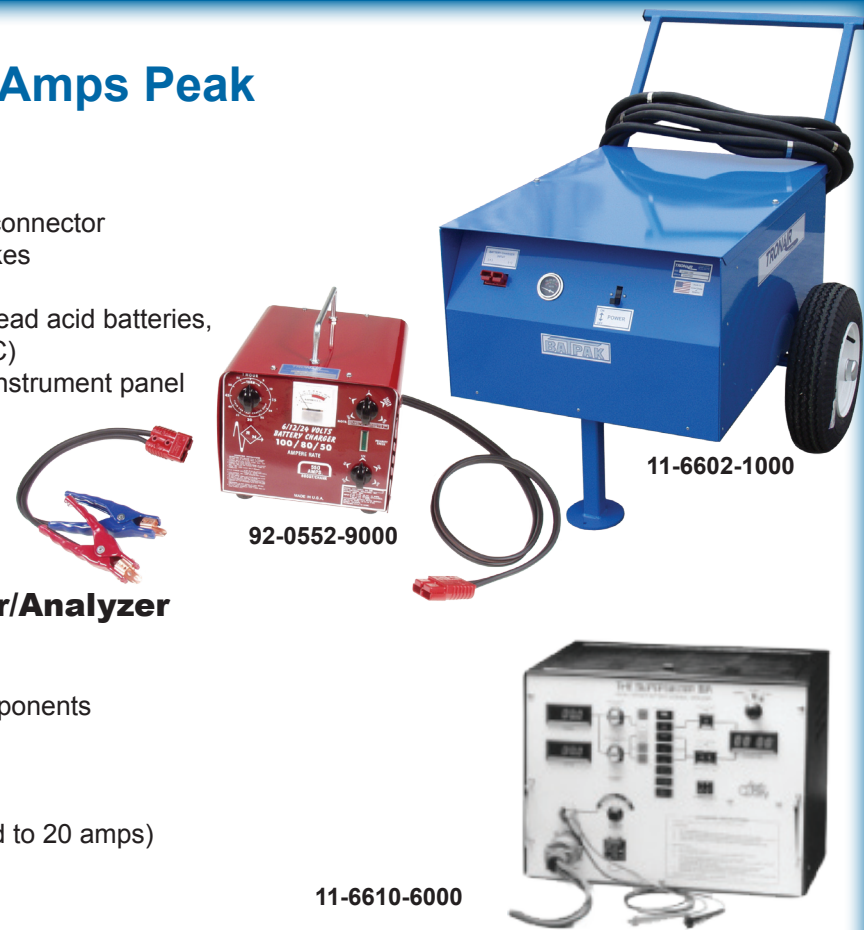
Battery Charger

60 Hz or 50 H

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



TRONAIR®

Ground Power Units

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!

Tier 4 Diesel GPU

Standard Features:

- High power output for cooler engine starts
- Enhanced Voltage Control Card (EVCC) for more precise control of the engine and alternator functions
- Ultra low ripple DC output voltage
- Meets global Tier 4 emission standards

Engine:

- Deutz Tier 4i electronic engine with full-authority electronic controls
- Extended service intervals using extended service filters and lubricants, up to 500 hours between scheduled service
- 120vac plug-in coolant heater and automatic glow plug system for cold starts
- Engine operates with ultra low sulfur diesel fuel
- Fuel/water separator with water-in-fuel sensor and electronic indication
- Large 35 gallon, high density cross-linked polyethylene fuel tank for 12 + hours of use
- 118 HP @ 1800 rpm for low fuel consumption, a 20% or more fuel cost savings
- Low fuel warning lamp (No fuel shutdown system optional)
- Low coolant shutdown system
- 24 volt control and starting circuitry for easy cold weather starting
- Large engine Digital Display and Diagnostics module (DDD), this is a multi-function tool to view engine parameters, maintenance timers and fault codes
- Automatic 1 minute power off delay engine shutdown for turbo protection

Alternator and DC Volt Control:

- Powerful 38kw, six phase alternator and rectifier for ultra low DC output ripple
- Alternator excitation test switch for easy troubleshooting
- Maintenance free, long life single bearing
- Automatic voltage build-up and protection
- Adjustable peak output current limiting control, 2,000 amp peak, 800 amp continuous output
- Cable head voltage sensing and output voltage drop compensation system ensures full power is provided to aircraft
- Aircraft cable head interlock circuit
- Pull out and removable control drawer system for easy troubleshooting
- Wiring and color code in accordance with CE, NFPA and NEC
- Large digital display voltmeter and ammeter
- 30 ft (9.1 m) DC output cable (40 ft (12.1 m) DC output cable optional)

Trailer Chassis and Sheet Metal:

- Durable, compact, maneuverable, trailer mounted unit with fifth wheel steering and skid mounted units with or without fuel tanks
- Hand actuated rear drum brakes
- Weather resistant galvanized sheet metal to prevent corrosion
- Large cable trays for easy cable stowage
- Finish: Durable Powder Coat Tronair Blue



112820D1T4
(shown with special paint)



Control Panel

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



11-6644C1010



112860S0100

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, 52dB nominal
- Easy to change multi-volt transformer
- 25 KVA transformer ensures full power during engine starts
- Low voltage ripple <.2 VDC RMS
- **Duplex Weatherproof Receptacle with Cover:**
50 Hz Models - 20 A, 220 VAC
60 Hz Models - 20 A, 115 VAC - **GFIC**
- 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)
- 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

- **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
- Finish: Durable Powder Coat Tronair Blue

visit tronair.com for detailed information