

# START PAC® STARTERS - POWER SUPPLIES

## START PAC® PORTABLE STARTING UNITS

The new patent pending Start Pac QC models have separate removable batteries that can be changed in 15 seconds. This feature allows the user to change the batteries in the field without needing to send the Start Pac back to the shop or manufacturer. Batteries have no memory effect and can be recharged at anytime. Made in the USA. Certain aircraft will allow the ship's generator to back charge a GPU. In this manner, Start Pacs can be recharged in the field without an AC source indefinitely.

**NOTE:** When storing the Start Pac for more than 30 days, remove the battery pack from the charging unit and store separately.



### MODEL 1324-1 QC

• 13 AMP hours @ 10 Amp Hour Rate • 1300 AMPS Peak Current complete with built in charger, power plug and cables • 15.5"x4"x11.75" • 35 LBS. Complete • Units are 24 VDC output with a universal charger that will accept 90-240 VAC 50/60 hertz. Will start turbine or piston engines up to 500 horse power. Has a 4.5 amp charger and will provide a charge time of approx. 4 hours. Will give two to three starts between charges. This portable unit is mainly designed for emergency starting in remote locations. This unit is not designed for repeated daily starts or maintenance functions.

1324-1 QC ..... P/N 11-04538 ..... **\$1,276.00**  
1324-1 QC-RBS (Battery Set) ..... P/N 11-07231 ..... **\$357.00**



### MODEL 2300 QC

Built in chargers, power plug and cables. 24/26 VDC output, with universal chargers that will accept 90-240 VAC 50/60 hertz. • 26 AMP hours @ 10 Hour Rate • 2300 AMPS Peak Current • Trolley available • 19.2"x7.5"x11.5" • 69 LBS. Complete. For starting engines up to

1500 horse power and give four to six starts between charges. This unit has a dual redundant 4 amp chargers. When plugged into an AC source, 8 amps at 28VDC, is available for maintenance functions without depleting the batteries. Recharge time is approx. 3-1/2 hours.

2300 QC ..... P/N 11-06780 ..... **\$2,866.00**  
2300QC-B (Batteries) ..... P/N 11-06781 ..... **\$935.00**



### MODEL 6028 QC

All In One air portable/carry-on START PAC® with built in chargers, power plug and cables. Units are 28.5 VDC output, with universal chargers that will accept 90-240VAC 50/60 hertz. 26 AMP hours @ 10 Hour Rate. 2300 AMPS Peak Current. Available with separate trolley. 19.2"x7.5"x11.5". 77 LBS. Complete.

6028 QC ..... P/N 11-06783 ..... **\$3,265.00**  
6028 QC-B (Batteries) ..... P/N 11-07189 ..... **\$1,145.00**



### MODEL Li2800 QC

A full 28VDC battery pack and will provide superior starts on all electrically-started turbine engines. It has dual, redundant chargers with a total of 7 amps output and a recharge time of approximately 4 hours. • 28 AMP hours @ 10 Hour Rate • 2400 AMPS Peak Current • L 19.2" x W 7.5" x H 9.75" • 46 LBS. Complete. Utilizes the latest technology in Lithium batteries. (can be left in a completely discharged state without causing damage)

Li2800 QC ..... P/N 11-06782 ..... **\$4,180.00**  
Replacement Battery ..... P/N 11-17613 ..... **\$1,829.00**



### START PAC® ONE™

START PAC® ONE™ The smallest and lightest 26V micro starting unit for aircraft on the market, this light duty air portable/carry-on START PAC® Lithium-ion weighs only 12lbs/5.4kg. Providing emergency starts for turbine or piston engines, this unit is designed for engine starting only. Designed to be used with voltage sensitive aircraft that cannot accept 28V external starters, this START PAC ONE jump-starting system is small but mighty. This START PAC® will provide a faster and cooler engine start than most ship's aircraft batteries (the turbine is spooled to more revolutions per second before fuel is injected). Thus, turbine life will be extended because there is less stress on the starter and other engine components. This will preserve the aircraft's costly batteries and help lower operating costs. Your on-board battery can then be saved for emergency use only.

P/N 11-14192 ..... **\$2,737.00**

### QUICK CHANGE TROLLEY

The Start Pac® QC trolley is a light weight accessory for either the Start Pac® Models 1324-2QC, 1628QC, 2300QC or the 6028QC

P/N 11-06775 ..... **\$389.00**



## START PAC® POWER SUPPLIES

The entire aircraft electrical system can be powered up for GPS programming and electrical maintenance. Thus the on board aircraft battery can be saved for starting. Do not use for starting as starter motors require far more amperage than is available from the StartPac® Portable Power Supply. Not for battery charging. Made in the USA.

### MODEL 53025

This START PAC®'s maximum amperage output is 50 amps which is more than adequate for powering up various systems such as GPS and avionics programming. It is also an excellent choice for powering the aircraft's maintenance equipment bypassing the aircraft battery and thus preserving it from unnecessary wear. This means that the on board aircraft battery is conserved for starting only. The environmentally responsible, low VOC powder coating protects the unit from wear, tear and poor weather conditions. **Features:** • Smallest and lightest portable aircraft power supply in the world • No duty cycle, clean continuous power • Resistant aluminum case with environment friendly, low VOC durable powder coat finish, easy to handle, built for heavy duty usage

Standard Plug 53025 - 12V ..... P/N 11-04536 ..... **\$695.00**  
Standard Plug 53025 - 24V ..... P/N 11-06833 ..... **\$1,195.00**  
Piper Plug 53025 - 12V ..... P/N 11-10088 ..... **\$677.00**



### MODEL 53050

**Specifications:** • No duty cycle, output voltage 28.5 VDC • AC input is universal 90-240 Volts.

• Over current protection • Over voltage protection • Over temperature protection • Forced air-cooling • **Dimensions:** Wt. 10 lbs./4.54 kilos 14" X 5.25" X 5.50". A 28.5 Volt continuous DC power supply when plugged into 110/220 Volt single phase AC power. Will deliver full 50 amp DC output continuously, but will not provide enough current for aircraft engine starting or mining equipment starting.

53050 ..... P/N 11-06833 ..... **\$1,195.00**



### MODEL 53105

**Specifications:** • Maximum continuous 105 amps +5%. No duty cycle • AC input 190-240 Volts • Over current protection • Over voltage protection • Over temperature protection • Forced air cooling • 8 foot power cable • Weights 26 lbs./11.80 kilos complete with power cable

• 14.5"x7"x13.75". A 28.5 Volt continuous DC power supply when plugged into 220Volt single-phase AC power. Will deliver full 105 amp DC output, but will not provide enough current for engine starting.

53105 ..... P/N 11-06834 ..... **\$2,254.00**

## START PAC® GROUND POWER UNITS

The following dimensions apply to each of the 3300s: 38"x21"x20" Handle Height 48". Avoid discharging the batteries completely as damage can result.

### MODEL 3324

Combination power supply and battery pack. **Batteries:** • 78 Amp Hours at 10 hour rate • 24 Volt DC - 25.5

Volts at rest Sealed cells non-hazardous Valve regulated high amperage output lead acid \* 3200 Peak Amps Power supply / charger: • Multi-unit 58 Amp DC continuous output • 28 - 28.5 Volt output from 0 - 58 amp load • Battery recharge time from fully discharged - 2 hours • AC Input - 110 Volt or 220 Volts (only 1) Limitations: 200 amps maximum DC load.

3324 ..... P/N 11-07225 ..... **\$5,879.00**  
3324-RBS (Battery Set) ..... P/N 11-07234 ..... **\$1,329.00**

**FOR ADDITIONAL GROUND POWER UNITS PLEASE CALL OR VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM**

## START PAC QUICK CHARGE GROUND POWER UNIT



These ground power units are designed to perform starting, powering up aircraft systems and maintenance functions. When connected to AC power, the depleted batteries can be charged in a matter of hours with the built in power supply/battery charger.

Volts	Amps	Part No.	Price
24	105	11-14338	<b>\$6,215.00</b>
24	200	11-14339	<b>\$7,026.00</b>
24	300	11-14340	<b>\$7,658.00</b>
28	400	11-14341	<b>\$5,990.00</b>
28	105	11-14342	<b>\$6,531.00</b>
28	200	11-14343	<b>\$7,298.00</b>
28	300	11-14344	<b>\$7,809.00</b>
28	400	11-14345	<b>\$8,340.00</b>

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