

## Hawker "Pure Lead" Main Ship STC Battery Certification

Aircraft	Battery Type	Part No.	Qty.	Certification	
				FAA	Foreign
ATR 42 & 72 Series	40 Ah, Composite Case and 18 Ah w/ thermal	9750W0538 and 9750W0350-5	1 ea.	✓	EASA, Canada, China
Beechjet 400, 400A, 400XP	43Ah, Metal Case, Thermal or	9750W0370-8	1	✓	
	43Ah, Metal Case, No Thermal	9750W0370	1		
B747-100, -200, -300, SP	43Ah, Metal Case, Thermal	9750W0370-10	2	✓	
Caravan 208, 208B	40Ah, Composite Case	9750W0538	1	✓	Canada
Citation I (500, 501)	43Ah, Metal Case, Thermal	9750W0370-11	1	✓	Canada EASA Pending
Citation II (550, 551, S550)	43Ah, Metal Case, Thermal	9750W0370-11	1	✓	Canada EASA Pending
Citation Bravo (550)	43Ah, Metal Case, Thermal	9750W0370-11	1	✓	Canada EASA Pending
Cessna 560 Ultra, V	43Ah, Metal Case, Thermal	9750W0370-11	1	✓	Canada EASA Pending
Cessna 560 Encore, Encore+	43Ah, Metal Case, Thermal	9750W0370-11	1	✓	Canada EASA Pending
Cessna 560 Excel, 560XLS, 560XLS+	43Ah, Metal Case, Thermal	9750W0370-11	1	✓	Canada EASA Pending
Challenger CL-600, -601	40 Ah, Composite Case	9750W0538	1	✓	
CRJ-100, -200, -700, -900	43Ah, Metal Case, Thermal and 18 Ah, Metal Case, Thermal	9750W0370-1 and 9750W0350-1	1 ea	✓	Canada EASA Pending
Dash 8/QSeries 100, 200, 300	43Ah, Metal Case, Thermal	9750W0370-6	2	✓	Canada
EMB-120	43Ah, Metal Case, Thermal	9750W0370-7	1	✓	
Falcon 2000, 2000EX	43Ah, Metal Case, Thermal	9750W0370-8	1	✓	EASA Pending
Gulfstream II, III (DC)	40 Ah, Composite Case	9750W0538	2	✓	
Gulfstream III (AC), IV	43Ah, Metal Case, Thermal	9750W0370-3	2	✓	EASA Pending
Gulfstream 350 & 450	45Ah, Metal Case, Thermal	9750W0380-1	2	✓	
Hawker HSI25 thru 900XP series (including 750)	25Ah, Composite Case	9750W0640	2	✓	Canada EASA
King Air 100, 200, 300, 90 Series (Excludes dual batt B100, H90)	43Ah, Metal Case, Thermal or	9750W0370-8 or	1	✓	Brazil
	43Ah, Metal Case, No Thermal	9750W0370	1		
MU-2B-36, -36A, -60	40 Ah, Composite Case	9750W0538	2	Pending	Canada



43Ah Battery,  
Metal Case  
P/N 9750W0370-x



40Ah Battery,  
Composite Case  
P/N 9750W0538



25Ah Battery,  
Composite Case  
P/N 9750W0640



28Ah Battery,  
Metal Case  
P/N 9750W0360-x



18Ah Battery,  
Metal Case  
P/N 9750W0350-x

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## Main Ship Batteries - Hawker "Pure Lead" Technology

Securaplane Sealed Lead Acid (SLA) Main Ship Batteries have technology that beats Ni-Cad, Lead-Calcium and Lead-Antimony in every category of performance. They can ultimately save operators hundreds, if not thousands, of dollars annually.

Securaplane is Master Distributor and Design and Certification Authority for EnerSys Hawker brand batteries for commercial and business aviation in the USA. Hawker Main Ship Batteries offer significant performance enhancements compared to other sealed lead acid and Ni-Cad batteries:

- 99.99% pure lead construction for enhanced life and performance.
- Batteries are shipped fully charged and ready to install.
- True no-maintenance battery.
- Hot and cold performance far exceeding that of any other aviation battery.
- Unsurpassed cranking power.
- Battery monobloc replacement at significantly less than the list price of a new battery.
- Certified as non-spillable and may be shipped as non-hazardous material via ground or air.



How do Securaplane's batteries stack up against other battery technologies?

### Battery Type Comparisons: Advantages of Hawker "Pure lead" technology

Comparison Category	Ni-Cad	"All Other SLA" - Lead Calcium etc.	SLA - Hawker "Pure Lead"	\$\$ SLA vs. Ni-Cad (Annual Savings)
<b>Battery Lifespan / Reblocking</b>	Cells replaced (3 / yr.)	Lowest lifespan; < 1 year typical	3rd yr. Reblocking; Lower battery life costs	\$1,387
<b>Maintenance Reqs. And Cost</b>	Deep cycling, fluid checks, battery cell replacement on a regular basis	Battery replacement / yr.	Capacity check only until Reblocking in 3rd yr.	\$1,600 to \$2,600
<b>Cold weather performance: Lower limit for engine start:</b>	-10° C / -14°F	-20° C / 32°F	-40° F / C	
<b>Starting power</b>	> power than Pure Lead	1/3 power of Pure Lead	Other Lead < SLA < - Ni-Cad. Lowest Internal Resistance	
<b>Recovery after full discharge</b>	Full service required	Unable	Recover 97% capacity	
<b>Battery Recharge time</b>	Identical to Pure SLA in rate of charge acceptance. Risk of thermal runaway at high charge rates	Slower than Pure SLA in rate of charge acceptance. Risk of thermal runaway & significant outgassing & electrolyte expulsion at high charge rates	Low internal impedance permits very efficient and rapid recharge. Achieve 90% charge recovery in less than 60 minutes from discharged condition.	
<b>Storage Life, charged (25° C)</b>	1 month	5 months	30 months	\$5,000+
<b>Shipping Requirements</b>	Hazardous materials, spillable. Ground shipping only, ships discharged and shorted.	Non-hazardous, non spillable, ships fully charged.	Non-hazardous, non spillable, ships fully charged.	\$2,500
<b>Environmental concerns</b>	Cadmium requires special disposal	Lead is easily recycled	Lead is easily recycled	
<b>Weight</b>	10 lb. < SLA	3 lb. < SLA	10 lb. > Ni-Cad	(\$250)