

EnerSys™

Power/Full Solutions™

...for a world on the move



*Aerospace
and Military*





POWER/FULL SOLUTIONS FOR A GLOBAL MARKETPLACE

EXPERIENCE - With over one hundred years experience in battery manufacture, it's little wonder EnerSys is the global leader in energy storage. Our reputation for superior quality products and innovative technology is the reason EnerSys is the undisputed first choice worldwide.

SOLUTIONS - EnerSys doesn't just supply batteries. We offer an integrated energy package to customers, whether small, medium or multi-national companies in the commercial arena or any of the armed forces around the world. By working in close partnership with users, EnerSys provides a complete solution to a diverse range of aerospace and military applications requiring stored DC energy solutions.

GLOBAL REACH - With its Global Headquartered in Pennsylvania, United States, and regional headquarters in Europe and Asia, EnerSys employs over seven thousand people, operates twenty-two manufacturing and assembly facilities worldwide, and has a presence in twenty nine countries. This vast infrastructure positions EnerSys at the forefront of new product development, manufacturing and distribution globally.

POWER/FULL PRODUCTS FOR A CHANGING WORLD

Constantly evolving technologies require rapid response to changes in technical requirements. EnerSys is the first to react. Our extensive product range serves a variety of aerospace and military applications and consistently delivers the most effective, powerful, and reliable batteries available. EnerSys manufactures a greater range of commercial and MIL qualified valve-regulated lead-acid (VRLA) batteries than any other single manufacturer. Our Hawker, VHB, Chloride, Cyclon, PowerSafe, DataSafe and Genesis brands offer an ideal energy solution to markets as diverse as telecommunications, IT, uninterruptible power supplies, utilities and switchgear, security, emergency lighting and general electronic systems. The Hawker pure lead VRLA batteries are specifically designed for the maintenance-free environment.

POWER/FULL BRANDS WITH A HISTORY OF SOLUTIONS WORLDWIDE



The EnerSys depth of experience and expertise has created an international reputation for the highest quality batteries for the entire armed forces.

Few nations would deny the vital role their armed forces play in a demanding world to protect and serve the interest of its people. Equally essential in the demanding conditions under which our troops operate are high quality batteries of the type that EnerSys has been designing and manufacturing for almost a century. EnerSys technology, in-depth experience and proven expertise are currently being put to use by all branches of the armed forces around the world.



Getting airborne

Getting into the air is just the start. Modern aircraft have such immense and varied energy requirements. It takes EnerSys batteries to meet them all. Proven airworthiness, aerobatic operation, virtually maintenance free, higher energy content, whatever the specification, EnerSys can fulfill it, or come up with an existing or new battery.



On the surface

From tactical vehicles to shipboard systems, EnerSys has proven technology to meet the power needs. Moving into position, in action, or maintaining silent watch, EnerSys batteries are playing a critical role to provide the soldier the much needed reserve power in a demanding environment. Whether it is a shipboard gun, a communication system, or a marines amphibious assault vehicle, EnerSys sealed VRLA batteries save money, time, and most importantly, lives.



Going deep

A wide range of cells that are well-proven as both standby batteries in nuclear-powered submarines and as the main propulsion source in diesel electric vessels are manufactured by EnerSys in advanced flat plate or tubular plate construction. EnerSys technology in submarine batteries is the result of the experience gained in satisfying the changing needs of navies throughout the world using major brands like Hawker, VHB/Varta and Chloride. Advancements in technology now takes the navies into a new dimension using thin-plate pure lead VRLA batteries for submarines, reducing service requirements, achieving true positive float operation, and improved safety.



















The Hawker Advantages:

- Dispatched from the manufacturer's factory fully charged
- Inspection free storage life of 2 years when stored at or under 25° C/77° F
- Completely Sealed and virtually maintenance-free
- Fully supports aerobatic operations
- Long life, pure lead grids
- Recovers from deep discharge
- Vents and Thermal Sensors not required
- Easy Commissioning, normally consisting of only a voltage check
- US D.O.T. Regulation 49 C.F.R. Section 173.159 para d. Classified as non-hazardous and unrestricted for transportation when correctly packed

All EnerSys/Hawker aviation battery products are classified as non-hazardous and unrestricted for land, sea or air transportation when correctly packed. This battery needs very little maintenance, has no memory effect, and doesn't suffer from fading. Depending on application, operation and use, the battery can last up to 5 years allowing a fit-and-forget installation. Maintenance, when required, is simple and quick – only visual inspection and a capacity test are needed. Thus a dedicated lead-acid battery shop is not required, as the batteries can be serviced in a NiCd shop.

24 Volt Military Aviation Battery Data

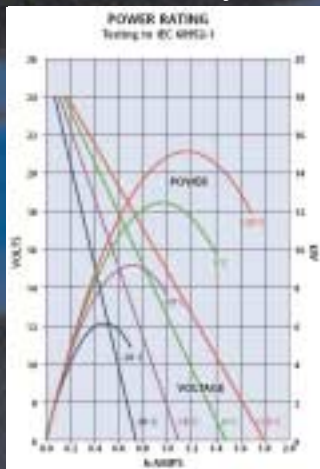
	Specification	P/N	NSN	Capacity (C ₁)	L x W x H (inches)	Weight (lbs.)
	MIL 8565/1-2	0774-3009	6140-01-474-6576	1.5 Ah	8.5 x 4.0 x 3.8	8.6
	MIL 8565/4-1	0774-3005	6140-01-131-8104	7.5 Ah	6.7 x 11.6 x 5.8	26.0
	MIL 8565/5-1	F0777-3021	6140-01-266-1633	30 Ah	9.8 x 10.0 x 10.3	80.2
	MIL 8565/5-2	F0777-3022	6140-01-266-1634	30 Ah	9.8 x 10.0 x 10.3	80.2
	MIL 8565/6-1	F0810-0501	6140-01-267-9594	1.5 Ah	6.8 x 7.0 x 3.3	6.4
	MIL 8565/7-1	9750T0639	6140-01-266-1632	25 Ah	11.6 x 11.7 x 9.1	64.0
	MIL 8565/7-2	F0774-3010	6140-01-422-0006	25 Ah	11.6 x 11.7 x 9.1	64.0
	MIL 8565/8-1	9750-0740	6140-99-778-1749	18 Ah	12.5 x 9.6 x 6.4	42.0
	MIL 8565/11-1	F0769-6030	6140-01-286-6294	10 Ah	7.8 x 8.4 x 7.8	34.8
	MIL 8565/15-1	F0777-3020	6140-01-399-6835	35 Ah	9.9 x 11.0 x 10.4	90.0
	MIL 8565/16-1	F0772-3005	6140-01-498-2223	5 Ah	9.3 x 7.7 x 4.6	14.6
	X885926	9750S0746	6140-01-458-4863	15 Ah	11.7 x 12.1 x 6.4	50.0
	16ZE1135	9750S0788	6140-01-492-0227	17 Ah	11.7 x 10.4 x 6.4	50.0
	4404-1800-10C	9750S0775	6140-01-417-3244	18 Ah	10.3 x 10.8 x 6.5	48.0
	Aviation 40	9750W0538	6140-01-497-2436	40 Ah	11.1 x 12.0 x 10.4	89.0
	Aviation 25	9750W0640	6140-01-497-2438	25 Ah	11.9 x 9.5 x 8.9	60.0

The Hawker Advantages:

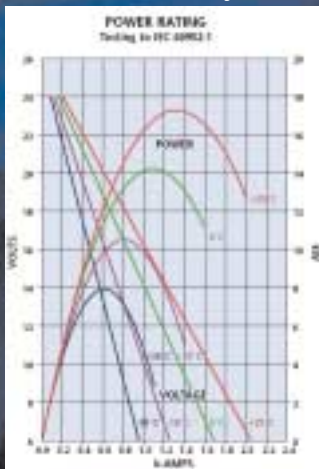
- Altitude rating: -457 to +21,336 m
-15,000 to 70,000 ft.
- Qualified to: CAA BCAR A8-8 E1
JAR 21 Subpart G
MIL 8565/D0-160C
PMA & STC available
OEM approvals available

Battery Power Curves

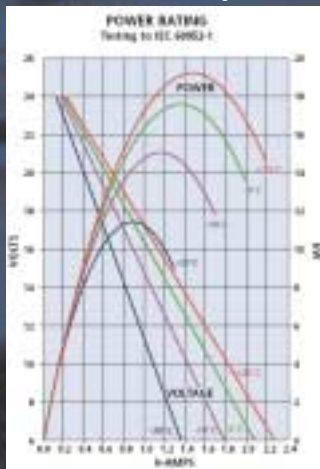
18 Ah Battery



25 Ah Battery



40 Ah Battery



24 Volt General Aviation Battery Data

	P/N	Capacity (C1)	L x W x H (inches)	Weight (lbs.)
	9750B0818 <i>and variants</i>	5 Ah	3.5 x 12.8 x 4.5	14.5
	9750R0824 <i>and variants</i>	10 Ah	6.3 x 9.8x 6.1	24.0
	9750D0740 <i>and variants</i>	18 Ah	12.5 x 9.6 x 6.4	42.0
	9750W0350 <i>and variants</i>	18Ah	12.8 x 6.5 x 8.4	48.0
	9750W0640 <i>and variants</i>	25 Ah	11.9 x 9.5 x 8.9	60.0
	9750W0360 <i>and variants</i>	28 Ah	11.6 x 9.5 x 8.5	60.0
	9750W0538 <i>and variants</i>	40 Ah	11.1 x 12.0 x 10.4	89.0
	9750W0370 <i>and variants</i>	43 Ah	11.6 x 13.0 x 10.4	89.0
	9750W0380 <i>and variants</i>	45 Ah	13.2 x 10.2 x 10.2	89.0

ARMASAFE

plus



NSN 6140-01-485-1472
P/N 9750N7025

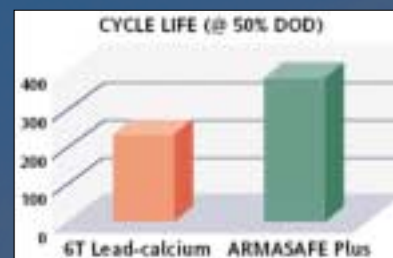
THE WORLD'S BEST BATTERY

- High starting power
- Long shelf life
- Maintenance free
- Longer life
- Environmentally safe
- Lower life-cycle cost
- Deep reserve capacity
- Air transportable

FOR COMBAT AND TACTICAL VEHICLES

COMPARISON OF BATTERY SPECIFICATIONS

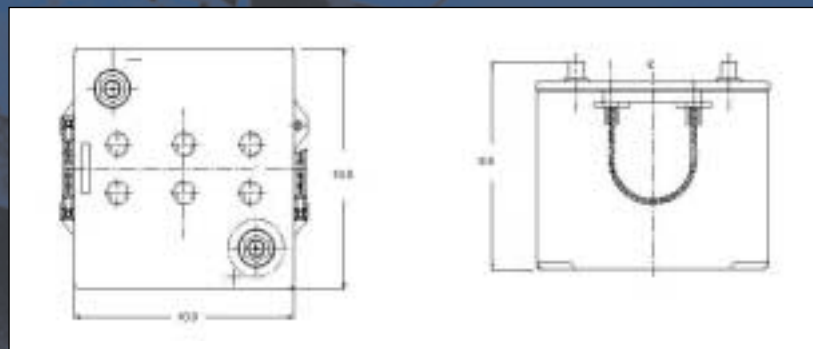
ORDINARY MILITARY LEAD CALCIUM BATTERIES	ARMASAFE <i>plus</i>
<ul style="list-style-type: none"> • 12 Volts • CCA -650 • Reserve Capacity 200 mins • Capacity -120 Ah C₂₀ • Usable Reserve - 30% DoD • Shelf life 3 months • Battery Type - Flooded, Lead Acid • Cycle Life - 235 • Life (cradle to grave) - 13 months • Technology - Lead Calcium, Flooded • Internal resistance - 0.009 Ohms • Transport Class - Hazardous • Environmental designation - Hazardous • Weight -75 pounds (34Kg) • Size (NATO 6T) - 10" (256mm) x 10.5" (269mm) x 8.5" h (227mm) 	<ul style="list-style-type: none"> • 12 Volts • CCA -1225 • Reserve Capacity 240 mins • Capacity - 120 Ah C₂₀ • Usable Reserve -70% DoD • Shelf life 30 months @25° C / 77° F • Battery type - Sealed, maintenance free • Cycle Life - 350 • Life (cradle to grave) - 48-54 months • Technology - AGM, sealed recombinant • Internal resistance - 0.0017 Ohms • Transport Class - non-spillable • Environmental designation- non-hazardous • Weight -88 pounds (40Kg) • Size (NATO 6T) - 10" (256mm) x 10.5" (269mm) x 8.5" h (227mm)









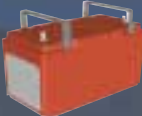

ADVANTAGES OF ARMASAFE *plus*

- Thin Plate - High Power
- Absorbed Glass Mat (AGM) - No Free Flowing Acid
- Recombinant - Less Gassing
- Sealed - Maintenance Free
- Pure Lead/Tin Alloy - Long Life/Deep Cycle
- Fully Charged At Manufacturer

DIMENSIONS



12 Volt Battery Data

	Description	P/N	NSN	Capacity (C ₂₀)	L x W x H (inches)	Weight (lbs.)
	MIL PC 545	0770-4010	6140-01-484-5341	13 Ah	3.4 x 7.0 x 5.2	12.0
	MIL PC 625	0768-4010	6140-01-484-5376	17 Ah	3.9 x 6.7 x 6.9	13.2
	MIL PC 680	0769-4010	6140-01-484-5343	16 Ah	3.1 x 7.3 x 6.7	14.7
	MIL PC 925	0765-4010	6140-01-484-5352	30 Ah	7.1 x 6.7 x 5.8	24.0
	MIL PC 1200	0766-4015	6140-01-484-5349	42 Ah	6.7 x 7.9 x 7.6	35.4
	MIL PC 1700	0771-4010	6140-01-484-5373	78 Ah	6.6 x 13.0 x 7.7	58.7
	MIL PC 2150	0790-2001	TBA	90 Ah	13.0 x 6.8 x 9.4	92.0
	Armasafe Plus	9750N7025	6140-01-485-1472	120 Ah	10.0 x 10.5 x 8.9	88.0

24 Volt Battery Data



Gun Battery 0774-3003 6140-01-501-5933 45Ah (25Ah/C₁) 9.4 x 10.8 x 10.7 67.0



Hardware Kit
3217-0006

Hardware needs to be ordered separately.





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Wherever in the world you do business, EnerSys is with you all the the way. With large manufacturing plants strategically located throughout Asia, Europe, and North and South America, combined with a strong global sales and support team, and backed with a reputation for world-leading technology, our customers benefit through supply reliability, high quality products designed to meeting ever increasing technical requirements, and our commitment to providing the best solution to meeting their aerospace and military needs.

For more information, visit our website at www.enersysinc.com, or contact an EnerSys aerospace and military sales office.

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