



# AEGIS

Integrated Lithium Power Systems

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# AEGIS ADVANTAGE

## Not just a battery, a complete power system

Aegis Energy is a specialist Lithium Power System OEM supplying both Commercial Off the Shelf (COTS) Solutions and fully customized Custom Production Systems in any scale from Pilot to Production.

We offer both **Lithium Iron Phosphate** and **Lithium Nickle Manganese Cobalt Oxide** Systems in standard voltages from 3V to 72V with special production capabilities up to 84V. Intelligent Integrated BMS Boards are assembled as standard on all Aegis Products with the ability to integrate CANbus, SMBus, Bluetooth, and various other data output modes.



Any customer, any application, any project from Aerospace to Medical Devices, we've got your back.

## AEGIS

/ˈɛjɪs/  
noun

the protection, backing, or support of a particular person or organization

## A Proven Track Record ...

It takes a special kind of company to work with titans of industry like **Honeywell Aerospace**, **Thales Group**, and **Edwards Vacuum** – a subsidiary of **Atlas Copco AB**. Aegis is one of those companies because we offer American designs and expertise that others can't and as one of the few American Lithium Power Specialists and one of the only dedicated OEM Industrial Suppliers in the USA, we work with the best because we are the best – 100% inspection on everything, *literally*. The best is what you are getting because nothing else is acceptable.

## ... From Design to Production

Send us your problems. We'll send you solutions. Aegis has a proven team with extensive industry experience in commercial technology and is at the forefront of bleeding edge power systems. From a company capable of producing future generation All Solid-State Batteries, **our expertise is yours to tap into**. We make complex power systems easier than pie.



# LFP vs Li-NMC+

It's all about finding the right Aegis System for your application and no matter the application, we have a solution.

	<b>LFP</b>	<b>Li-NMC</b>
<b>CHEMISTRY</b>	Lithium Iron Phosphate	Lithium Nickle Manganese Cobalt Oxide
<b>CHARACTERISTICS</b>	Energy Storage Electronic Systems Robotics Deep Discharge Systems Sensitive Electronics High Cycling Equipment	Electric Motors High Current Extended Discharge Size Restricted Applications
<b>PER/CELL VOLTAGE</b>	3.3V	3.7V
<b>CAPACITY RANGE</b>	1.5-100Ah	1.5-100Ah
<b>DISCHARGE</b>	1-2C	2-3C
<b>CHARGE</b>	≤0.5C	≤0.5C
<b>LIFE CYCLES*</b>	3000+	1000+
<b>ENERGY DENSITY</b>	90-120Wh/kg	150-220Wh/kg
<b>BMS</b>	1-2C Non-Data Standard Data Boards Upon Request CANbus (Available) SMBus (Available) I <sup>2</sup> C (Available) Bluetooth (Available)	3C Non-Data Standard
<b>FORM FACTOR</b>	PVC Light Duty Soft Wrap PE Heavy Duty Soft Wrap ABS Standard Sizes Custom Metal Chassis	
<b>CONNECTORS</b>	Unibody Gendered Modular Quick Detach	
<b>CABLING</b>	Standard Terminal Post 1-3 Output/Input Cables Independent Discharge/Charge Cables Standard Screw Terminal Data Output Connectors	
<b>CHARGE TEMPERATURE</b>	0°C to 45°C	
<b>DISCHARGE TEMPERATURE</b>	-20°C to 60°C	
<b>OPERATING HUMIDITY</b>	60±25%R.H	
<b>STORAGE HUMIDITY</b>	60±25%R.H	



\*Life Cycles will vary from customer to customer and application to application, dependent on how the individual unit is charged and discharged in addition to environmental factors



# PRODUCT SPECIFICATIONS

## Li-NMC+ (COTS)

SIZE	DIM (METRIC)	DIM (IMPERIAL)	WEIGHT	CHARGE	DISCHARGE	CAPACITY
12V10AH	100 mm x 70 mm x 70 mm	3.9 in. x 2.8 in. x 2.8 in.	1.55 lbs. (0.70 kg)	3.0 Amps	20.0 Amps	120 Watt-Hours
12V15AH	120 mm x 70 mm x 70 mm	4.7 in. x 2.8 in. x 2.8 in.	2.31 lbs. (1.05 kg)	3.0 Amps	30.0 Amps	180 Watt-Hours
12V20AH	150 mm x 70 mm x 70 mm	6.1 in. x 2.8 in. x 2.8 in.	2.98 lbs. (1.35 kg)	5.0 Amps	40.0 Amps	240 Watt-Hours
12V30AH	230 mm x 80 mm x 80 mm	9.1 in. x 3.1 in. x 3.1 in.	4.63 lbs. (2.10 kg)	5.0 Amps	60.0 Amps	360 Watt-Hours
14V5AH	80 mm x 75 mm x 45 mm	3.1 in x 2.9 in. x 1.8 in.	0.99 lbs. (0.45 kg)	3.0 Amps	10.0 Amps	70 Watt-Hours
14V10AH	115 mm x 65 mm x 55 mm	4.5 in. x 1.4 in. x 2.6 in.	1.99 lbs. (0.90 kg)	3.0 Amps	20.0 Amps	140 Watt-Hours
14V15AH	120 mm x 90 mm x 70 mm	4.7 in. x 3.6 in. x 2.8 in.	2.98 lb. (1.35 kg)	3.0 Amps	30.0 Amps	210 Watt-Hours
24V10AH	150 mm x 80 mm x 70 mm	5.9 in. x 3.1 in. x 2.8 in.	3.31 lbs. (1.50 kg)	3.0 Amps	20.0 Amps	240 Watt-Hours
24V12AH	150 mm x 100 mm x 70 mm	5.9 in. x 3.9 in. x 2.8 in.	4.08 lbs. (1.85 kg)	3.0 Amps	30.0 Amps	288 Watt-Hours
24V12AH	235 mm x 70 mm x 70 mm	9.3 in. x 2.8 in. x 2.8 in.	4.08 lbs. (1.85 kg)	3.0 Amps	30.0 Amps	288 Watt-Hours
24V15AH	250 mm x 120 mm x 70 mm	9.8 in. x 4.7 in. x 2.8 in.	4.85 lbs. (2.20 kg)	3.0 Amps	30.0 Amps	360 Watt-Hours
24V20AH	155 mm x 142 mm x 90 mm	6.1 in. x 5.6 in. x 3.6 in.	6.74 lbs. (3.05 kg)	5.0 Amps	40.0 Amps	480 Watt-Hours
24V30AH	230 mm x 150 mm x 85 mm	9.1 in. x 5.9 in. x 3.3 in.	9.70 lbs. (4.40 kg)	5.0 Amps	60.0 Amps	720 Watt-Hours
24V40AH	310 mm x 140 mm x 80 mm	12.2 in. x 5.5 in. x 3.1 in.	13.01 lbs. (5.90 kg)	10.0 Amps	80.0 Amps	960 Watt-Hours
24V50AH	200 mm x 185 mm x 150 mm	7.9 in. x 7.3 in. x 5.9 in.	16.20 lbs. (7.35 kg)	10.0 Amps	100.0 Amps	1200 Watt-Hours
24V60AH	255 mm x 195 mm x 140 mm	10.0 in. x 7.7 in. x 5.5 in.	20.50 lbs. (9.30 kg)	10.0 Amps	100.0 Amps	1440 Watt-Hours
36V10AH	368 mm x 76 mm x 51 mm	14.5 in. x 2.9 in. x 2.0 in.	4.74 lbs. (2.15 kg)	3.0 Amps	20.0 Amps	360 Watt-Hours
36V10AH	190 mm x 90 mm x 80 mm	7.5 in. x 3.5 in. x 3.1 in.	4.74 lbs. (2.15 kg)	3.0 Amps	20.0 Amps	360 Watt-Hours
36V12AH	195 mm x 100 mm x 80 mm	7.7 in. x 3.9 in. x 3.1 in.	5.84 lbs. (2.65 kg)	3.0 Amps	30.0 Amps	432 Watt-Hours
36V12AH	335 mm x 75 mm x 75 mm	13.1 in. x 2.9 in. x 2.9 in.	5.84 lbs. (2.65 kg)	3.0 Amps	30.0 Amps	432 Watt-Hours
36V15AH	200 mm x 130 mm x 80 mm	7.9 in. x 5.1 in. x 3.1 in.	7.17 lbs. (3.25 kg)	3.0 Amps	30.0 Amps	540 Watt-Hours
36V20AH	200 mm x 155 mm x 70 mm	7.9 in. x 6.1 in. x 2.8 in.	8.84 lbs. (4.01 kg)	5.0 Amps	40.0 Amps	720 Watt-Hours
36V25AH	205 mm x 200 mm x 70 mm	8.1 in. x 7.9 in. x 2.8 in.	11.35 lbs. (5.15 kg)	5.0 Amps	60.0 Amps	900 Watt-Hours
36V30AH	230 mm x 205 mm x 80 mm	9.1 in. x 8.1 in. x 3.1 in.	13.56 lbs. (6.15 kg)	5.0 Amps	60.0 Amps	1080 Watt-Hours
36V40AH	215 mm x 185 mm x 140 mm	8.5 in. x 7.3 in. x 5.5 in.	18.85 lbs. (8.55 kg)	8.0 Amps	80.0 Amps	1440 Watt-Hours
36V50AH	230 mm x 215 mm x 145 mm	9.1 in. x 8.5 in. x 5.7 in.	23.26 lbs. (10.55 kg)	8.0 Amps	100.0 Amps	1800 Watt-Hours
36V60AH	250 mm x 235 mm x 140 mm	9.8 in. x 9.3 in. x 5.5 in.	28.11 lbs. (12.75 kg)	8.0 Amps	100.0 Amps	2160 Watt-Hours
48V10AH	250 mm x 85 mm x 85 mm	9.8 in. x 3.3 in. x 3.3 in.	6.17 lbs. (2.80 kg)	3.0 Amps	20.0 Amps	480 Watt-Hours
48V12AH	260 mm x 105 mm x 85 mm	10.2 in. x 4.1 in. x 3.3 in.	7.39 lbs. (3.35 kg)	3.0 Amps	30.0 Amps	576 Watt-Hours
48V15AH	255 mm x 120 mm x 85 mm	10.0 in. x 4.7 in. x 3.3 in.	8.93 lbs. (4.05 kg)	3.0 Amps	30.0 Amps	720 Watt-Hours
48V20AH	260 mm x 162 mm x 75 mm	10.2 in. x 6.4 in. x 2.9 in.	11.68 lbs. (5.30 kg)	5.0 Amps	40.0 Amps	960 Watt-Hours
48V25AH	260 mm x 200 mm x 70 mm	10.2 in. x 7.9 in. x 2.8 in.	14.55 lbs. (6.60 kg)	5.0 Amps	40.0 Amps	1200 Watt-Hours
48V30AH	260 mm x 235 mm x 85 mm	10.2 in. x 9.3 in. x 3.3 in.	17.42 lbs. (7.90 kg)	5.0 Amps	60.0 Amps	1440 Watt-Hours
48V40AH	300 mm x 185 mm x 145 mm	11.8 in. x 7.3 in. x 5.7 in.	24.47 lbs. (11.10 kg)	10.0 Amps	60.0 Amps	1920 Watt-Hours
48V50AH	300 mm x 235 mm x 145 mm	11.8 in. x 9.3 in. x 5.7 in.	30.54 lbs. (13.85 kg)	10.0 Amps	100.0 Amps	2400 Watt-Hours
48V60AH	300 mm x 280 mm x 145 mm	11.8 in. x 11.0 in. x 5.7 in.	36.49 lbs. (16.55 kg)	10.0 Amps	100.0 Amps	2880 Watt-Hours
60V10AH	205 mm x 87 mm x 137 mm	8.1 in. x 3.4 in. x 5.4 in.	8.16 lbs. (3.70 kg)	3.0 Amps	20.0 Amps	600 Watt-Hours
60V12AH	190 mm x 140 mm x 125 mm	7.5 in. x 5.5 in. x 4.9 in.	10.14 lbs. (4.60 kg)	3.0 Amps	30.0 Amps	720 Watt-Hours
60V12AH	430 mm x 135 mm x 40 mm	16.9 in. x 5.3 in. x 1.6 in.	9.59 lbs. (4.35 kg)	3.0 Amps	30.0 Amps	720 Watt-Hours
60V15AH	210 mm x 130 mm x 145 mm	8.3 in. x 5.1 in. x 5.7 in.	12.13 lbs. (5.50 kg)	3.0 Amps	30.0 Amps	900 Watt-Hours
60V20AH	212 mm x 170 mm x 140 mm	8.3 in. x 6.7 in. x 5.5 in.	15.98 lbs. (7.25 kg)	5.0 Amps	40.0 Amps	1200 Watt-Hours
60V20AH	220 mm x 195 mm x 170 mm	8.7 in. x 7.7 in. x 6.7 in.	17.19 lbs. (7.80 kg)	5.0 Amps	40.0 Amps	1200 Watt-Hours
60V30AH	248 mm x 200 mm x 144 mm	9.8 in. x 7.9 in. x 5.7 in.	23.37 lbs. (10.60 kg)	5.0 Amps	60.0 Amps	1800 Watt-Hours
60V40AH	405 mm x 180 mm x 160 mm	15.9 in. x 7.1 in. x 6.3 in.	32.19 lbs. (14.60 kg)	8.0 Amps	100.0 Amps	2400 Watt-Hours
60V50AH	405 mm x 230 mm x 160 mm	15.9 in. x 9.1 in. x 6.3 in.	39.79 lbs. (18.05 kg)	8.0 Amps	100.0 Amps	3000 Watt-Hours
60V60AH	405 mm x 250 mm x 160 mm	15.9 in. x 9.8 in. x 6.3 in.	47.40 lbs. (21.50 kg)	8.0 Amps	100.0 Amps	3600 Watt-Hours
72V10Ah	230 mm x 87 mm x 137 mm	9.1 in. x 3.4 in. x 5.4 in.	9.48 lbs. (4.30 kg)	3.0 Amps	20.0 Amps	720 Watt-Hours
72V12AH	230 mm x 105 mm x 137 mm	9.1 in. x 4.1 in. x 5.4 in.	11.68 lbs. (5.30 kg)	3.0 Amps	30.0 Amps	864 Watt-Hours
72V20AH	245 mm x 166 mm x 136 mm	9.6 in. x 6.6 in. x 5.4 in.	18.74 lbs. (8.50 kg)	5.0 Amps	40.0 Amps	1440 Watt-Hours
72V20AH	220 mm x 195 mm x 170 mm	8.7 in. x 7.7 in. x 6.7 in.	19.51 lbs. (8.85 kg)	5.0 Amps	40.0 Amps	1440 Watt-Hours
72V30AH	246 mm x 230 mm x 140 mm	9.7 in. x 9.1 in. x 5.5 in.	27.56 lbs. (12.50 kg)	5.0 Amps	60.0 Amps	2160 Watt-Hours
72V40AH	420 mm x 145 mm x 190 mm	16.5 in. x 5.7 in. x 7.5 in.	36.93 lbs. (16.75 kg)	10.0 Amps	100.0 Amps	2880 Watt-Hours
72V50AH	470 mm x 180 mm x 250 mm	18.5 in. x 7.1 in. x 9.8 in.	46.85 lbs. (21.25 kg)	10.0 Amps	100.0 Amps	3600 Watt-Hours

## LFP (COTS)

SIZE	DIM (METRIC)	DIM (IMPERIAL)	WEIGHT	CHARGE	DISCHARGE	CAPACITY
12V25AH	180 mm x 75 mm x 170 mm	7.1 in. x 2.9 in. x 6.7 in.	6.17 lbs. (2.85 kg)	5.0 Amps	25.0 Amps	300 Watt-Hours
12V35AH	220 mm x 90 mm x 175 mm	8.7 in. x 3.6 in. x 6.9 in.	9.26 lbs. (4.20 kg)	5.0 Amps	30.0 Amps	420 Watt-Hours
12V55AH	220 mm x 120 mm x 75 mm	8.7 in. x 4.7 in. x 2.9 in.	13.67 lbs. (6.20 kg)	8.0 Amps	50.0 Amps	660 Watt-Hours
12V75AH	255 mm x 165 mm x 210 mm	10.0 in. x 6.5 in. x 8.3 in.	19.18 lbs. (8.70 kg)	20.0 Amps	60.0 Amps	900 Watt-Hours
12V75AH	255 mm x 165 mm x 210 mm	10.0 in. x 6.5 in. x 8.3 in.	19.18 lbs. (8.70 kg)	20.0 Amps	60.0 Amps	900 Watt-Hours
12V125AH	400 mm x 170 mm x 230 mm	15.7 in. x 7.7 in. x 9.1 in.	32.52 lbs. (14.75 kg)	20.0 Amps	100.0 Amps	1500 Watt-Hours
16V15AH	165 mm x 100 mm x 85 mm	6.5 in. x 3.9 in. x 3.3 in.	5.40 lbs. (2.45 kg)	3.0 Amps	15.0 Amps	240 Watt-Hours
16V20AH	180 mm x 75 mm x 170 mm	7.1 in. x 2.9 in. x 6.7 in.	7.39 lbs. (3.35 kg)	5.0 Amps	20.0 Amps	320 Watt-Hours
16V25AH	180 mm x 75 mm x 170 mm	7.1 in. x 2.9 in. x 6.7 in.	7.39 lbs. (3.35 kg)	5.0 Amps	25.0 Amps	400 Watt-Hours
24V25AH	220 mm x 120 mm x 75 mm	8.7 in. x 4.7 in. x 2.9 in.	12.02 lbs. (5.45 kg)	5.0 Amps	25.0 Amps	600 Watt-Hours
24V60AH	400 mm x 170 mm x 230 mm	15.7 in. x 7.7 in. x 9.1 in.	30.97 lbs. (14.05 kg)	10.0 Amps	60.0 Amps	1440 Watt-Hours
24V100AH	480 mm x 170 mm x 240 mm	18.9 in. x 7.7 in. x 9.4 in.	50.59 lbs. (22.95 kg)	18.0 Amps	100.0 Amps	2400 Watt-Hours
36V40AH	400 mm x 170 mm x 230 mm	15.7 in. x 7.7 in. x 9.1 in.	32.19 lbs. (14.60 kg)	8.0 Amps	40.0 Amps	1440 Watt-Hours
36V50AH	480 mm x 170 mm x 230 mm	18.9 in. x 7.7 in. x 9.4 in.	36.93 lbs. (16.75 kg)	8.0 Amps	50.0 Amps	1800 Watt-Hours
36V75AH	490 mm x 260 mm x 220 mm	19.3 in. x 10.2 in. x 8.6 in.	65.92 lbs. (29.90 kg)	18.0 Amps	75.0 Amps	2700 Watt-Hours
36V100AH	490 mm x 260 mm x 220 mm	19.3 in. x 10.2 in. x 8.6 in.	76.17 lbs. (34.55 kg)	18.0 Amps	100.0 Amps	3600 Watt-Hours
48V25AH	330 mm x 170 mm x 215 mm	12.9 in. x 6.7 in. x 8.5 in.	24.80 lbs. (11.25 kg)	5.0 Amps	25.0 Amps	1200 Watt-Hours

