



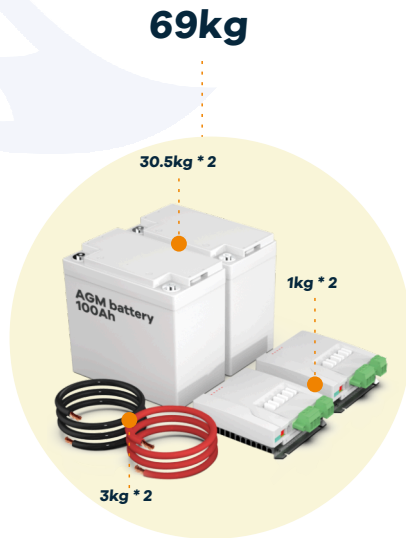
ENERGY HUB

EH128L



& LIGHTWEIGHT COMPACT

Designed as a replacement for cumbersome power systems that rely on heavy AGM batteries and outsourced components, the Energy Hub is a lithium-based powerhouse that provides compact and efficient DC and AC energy. This makes for a lighter plug and play system with a long service life, that's optimised for fast and easy deployment



* Based on equivalent discharged energy



Professional Lithium Battery

The Energy Hub utilises modern, lithium battery technology with 5 x the service life of conventional lead acid batteries. The intelligent BMS ensures protection and control of the Energy Hub whilst also bolstering other unique features:

- High discharge current
- Built in precise shunt for battery SOC calculation
- Built in battery heater to automatically warm cells at low temperatures to assure safe recharging during winter months
- Integrated energy management protocols to protect the lithium battery from deep discharge whilst also supporting a "hibernation mode" enabling easy wake up, even when fully discharged for up to 3 months



DC-DC Charger

The fully integrated 60A DC-DC charger provides fast charging in around 2 hours whilst driving ensuring the Energy Hub is always ready for use.



Mobile and Remote Monitoring

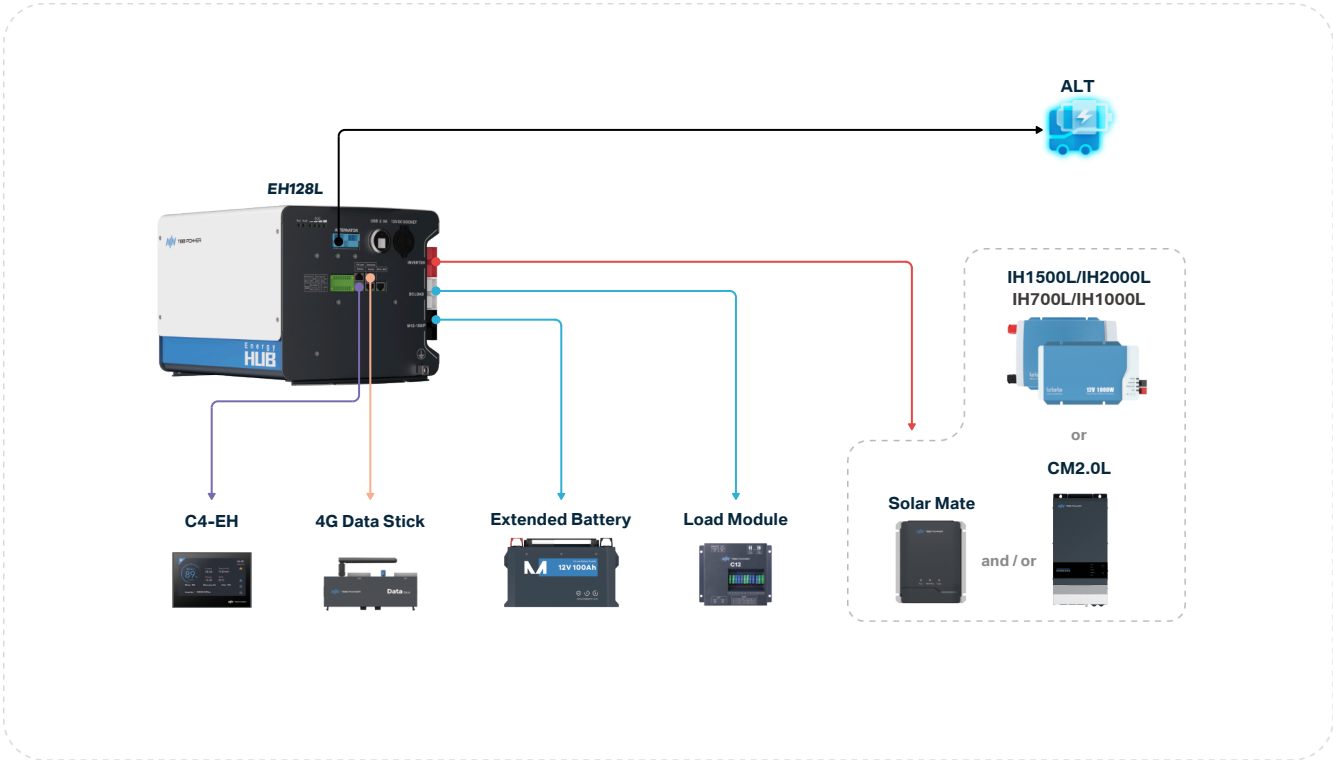
The touchscreen display enables live data to be viewed locally or on mobile devices using the Energy Hub APP.

An additional 4G data stick can be added to each system to provide complete remote monitoring functionality. Viewed from a phone, tablet or cloud based portal, users have access to data records, custom charts, and GPS for better understanding of daily operations and performance.

The event log and system health make for easy management and fault diagnosis of the power reducing engineer call outs.



System Schematic



IH Series – Pure Sine Wave Inverter

The IH inverter series (700W to 2000W) is easily connected and controlled by the Energy Hub to power AC loads such as small compressors and power tools.



Kinergier Mobile Inverter Charger

The CM2.0L 2KW is available as an option to connect to the Energy Hub enabling easy and fast charging from the grid.

- Easily powers heavy duty loads such as air compressor, electric saw, power tools etc.



System Monitor C4-EH

The C4 touch screen display provides clear and easy access to basic data and settings on the Energy Hub.

- 4.3" LCD with resolution 480 x 270px
- Displays clear data from the battery, DC-DC charger and solar controller (if present)
- Built-in Bluetooth for connectivity to mobile App



MPPT Solar Charge Controller Solar Mate

- Wide MPPT voltage range up to 100Vdc
- 30A or 50A model as optional
- High conversion efficiency, the Max. efficiency $\geq 97.2\%$
- High MPPT efficiency, the Max. efficiency $\geq 99.9\%$
- Self-cooling design (SP models) and fan-cooling design (SF models)





Load module for digital switching

- 9 x relay controlled and fuse protected outputs, 15A each
- Water tank measurement
- Programmable
- Fuse indicator



Load module C12 or C13

- Rated current is 100A (For C12) or 150A (For C13)
- One dedicated DC output up to 80A (For C13 only)
- Dry contact input control to cut off loads by voltage or SoC



Additional 4G Data Stick

The 4G data stick enables data from the Energy Hub to connect to TBB Fleet, a cloud-based solution that provides remote monitoring of the system from both a web portal or mobile device.

Model No.	EH128L-D	
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Electrical & Battery

Battery type	LiFePO4	
Battery capacity	12.8VDC 105Ah(1.34kWh)	
Output voltage range	11.6~14.2VDC	
Max charging current	100ADC	
Continuous discharging current	150ADC	
Max discharging current	200ADC-10mins	
DC-DC Charger		
Input voltage range	12~16VDC	
Dry contact output	Engine start	2A/30VDC
	Distribution	2A/30VDC
	Inverter power control	10A/28VDC

DC Output

DC Output1 (To INVERTER)		
Continuous current	150ADC	
Peak current	200ADC-10mins	
DC Output2 (To DC LOAD)		
Continuous current	Max 120ADC	
DC output 3 (To 12V DC SOCKET)		
Continuous current	10ADC	
DC Output 4 (To extended battery)		
Continuous Current	120A	

Others

Sleep mode consumption	<100uA	
Operating cell temperature	Charge	2°C ~ 60°C
	Discharge	-30°C ~ 60°C
Cooling / IP rating	Natural cooling / IP21	
Product weight	19kg	
Product dimensions in mm	375 x 280.5 x 247	



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