



XESS ION 5120

Lithium Battery Storage



Featuring cutting-edge Active Battery Management and World Class LiFePo4 Prismatic Cells, the ION 5120 is a robust energy storage solution designed for the toughest of Australian conditions.

Future proof with effortless expandability thanks to our Plug-and-Play Cabinets, and enjoy the confidence of uninterrupted performance with an industry first Automatic Fallback to Self-Management if comms are lost (when used with the XESS ONE).



Easy to Connect

Managed or Self-Managed Operating Modes.



Scalable

Up to 64 Battery Modules in parallel.



Hot Swappable

Easy swapped without system interruption.



Reliability

Automatic Fallback to Self-Managed if comms are lost.
(when used with the XESS ONE)



LiFePO4

LiFePO4 chemistry housed in a robust Prismatic Cell construction.



Easy Installation

Easy installation with quick plug-and-play connections saving time on site.



Pre-wired Cabinets

Choose from 6 or 10 battery module pre-wired cabinets.



Remote Monitoring

Performance and system management through XESS LINK.



Warranty

Up to a 10-year 70% product and performance warranty.
(Conditions Apply)

XESS Energy

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Powered by
Great Power

Parameter	Battery Specifications
Part Number	XESSION-5120
Nominal Voltage	51.2 V DC
Operational Voltage Range	40.8 V DC to 58.4 V DC
Capacity	5.12 kWh / 100 Ah
Depth of Discharge	Up to 100%
Maximum Continuous Discharge Rate	1C (@ 25°C)
Maximum Continuous Discharge Current	100 A (@ 25°C)
Maximum Discharge Power	5.12 kW
Peak Discharge Current	200 A (10.24 kW, 5s)
Maximum Continuous Charge C-Rate	1C (@ 25°C)
Maximum Continuous Charge Current	100 A (@ 25°C)
Peak Charge Current	200 A (@ 25°C)
Integrated Circuit Breaker	2-Pole 125A 80VDC/415VAC
Lithium Chemistry	LiFePO4 / LFP
Cell Construction	Prismatic
Operating Temperature Range Managed	Charge: -10°C to 50°C / Discharge -20°C to 50°C
Operating Temperature Range Self-Managed	Charge: 0°C to 50°C / Discharge -5°C to 50°C
Operating Humidity	Up to 95% (non-condensing)
BMS Over-Voltage Cell Level Protection	3.65 V DC
BMS Under-Voltage Cell Level Protection	2.55 V DC
BMS Over-Temp Cut Off	56°C
Short Circuit Current	4500 A
Arc Flash Incident Energy IEm in Cal/cm2 (45cm)	0.341
Arc Flash Incident Energy AFB (cm)	23.952
Altitude	< 2500 m
DC Connectors	130 A Quick Connect
IP Rating	IP20
Efficiency	> 96%
Cooling	Natural Convection
Scalability	64 Batteries in Parallel
Series Connection	Not Permitted
Communications	CAN 2.0A / RS458 / No Comms
Weight	44 kg
Dimensions	440 x 134 x 480 mm
Warranty	7 + 3 Years (up to 10 Years) - Conditions Apply
Certifications - Cell	UL1973, UL9540A, IEC62619:2022, UN38.3
Certifications - Pack	IEC62619:2022, IEC62040, UN38.3, CE



XESS Energy reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.