

# **Scout LFPro Battery Bundles**

10 - 25 kWh+

Off-Grid & Fringe of Grid Households and Businesses



### **FEATURES**

- Flexible Installations: Build custom energy systems with Scout LFPro Battery Bundles. Each bundle includes:
  - · Polarium battery module/s
  - Polarium Solar Inverter Interface
  - USB Modbus Cable to support connection to Polarium Studio (via PC)
  - 2-3U busbars (300A rating)
- Smart Monitoring: Real-time monitoring of battery parameters and performance via Bluetooth and supported inverters, accurately tracking SOC, SOH, Current, Voltage, and Temperature.
- Proven Performance: Polarium batteries are trusted by critical infrastructure across Australia for reliable backup power in essential services.
- Inverter Agnostic: Compliant with industry standards, supporting various inverter/charger platforms and installation types (AC Coupled & DC Coupled).
- Cost of Ownership: Combines safety, reliability, and smart features with affordability, maximizing solar benefits.



Exceeds safety standards with 5 layers of embedded protection and the most advanced Battery Management System, ensuring safety even under abnormal conditions.



#### Reliable

Equipped with a wide operating temperature range, patented Current Limiting Device (CLD), integrated precharge circuit, and 'black start' feature for world-class reliability.



### **Polarium Battery**

Swedish engineered Polarium Lithium Iron Phosphate (LFP) chemistry batteries are renowned for exceptional safety, longevity, and environmental friendliness.



## **Scout LFPro Battery Bundles**

10 – 25 kWh+ Off-Grid & Fringe of Grid Households and Businesses

Polarium 100 Ah Battery Specifications

	· oraniam	oo / iii Zattoi y opooiiioatioiio			
Electrical Characteristics		Environmental Characteristics			
Enclosure Size	Suits 19" enclosure	Operating Temperature Discharg	ging -20 to +60 °C (-4 to 140 °F)		
Lithium Chemistry	Lithium iron phosphate (LFP)	Operating Relative Humidity	According to ETSI 300 019-1-3 class 3.2 (0-95 %)		
Rated Voltage	48 V	Storage Temperature	-20 +60 °C (-4 to 140 °F)		
Rated Capacity (0.2 C, 25 °C to LVBD)	100 Ah	Physical Characteristics			
Rated Energy (0.2 C, 25 °C to LVBD)	5120 Wh	Weight (per battery)	Approx 39.3 kg (87 lbs)		
Discharge Cutoff Current	100 A, 300 seconds	Dimensions (per battery)	W 440 D 441 H 132 mm (W 17.3" D 17.4" H 5.2")		
End-of-Discharge Voltage (LVBD)*	40 V				
Charge Current Limitation (CLD)**	100 A	Supported Inverters			
Charge Voltage for 100 % SOC	58.4 V	Selectronic	SP Pro SPMC480-AU / SPMC481-AU / SPMC482-AU		
		Victron Energy	EasySolar / MultiPlus / Quattro		
		SMA	Sunny Island 4.4M / 6.0H / 8.0H		
		CE+T	Sierra25		
	9	Safety & Compliance			
Circuit Breaker			125 A, BMS Controlled, dual pole		
IP Class			IP20		
Communication Protocols			RS485, RJ45 (2) ports, Modbus		
Safety Standards	Complies with 'Best P Equipment - Electr	Complies with 'Best Practice Guide for Battery Energy Storage Equipment - Electrical Safety Requirements - Version 1'  AS IEC62619, AS/NZS 62638-1, UN38.3			
Management & Monitoring Software			for PC (Studio) included for full local monitoring and management. Remote connection via Modbus		
Polarium Solar Inverter Interface Specifications					
Input Power					
Power Input	Bus bar or cable connections to the battery power terminals				
Operational Voltage			30-65 V		

Communication				
RS485/CAN (Out)	Communicates with customer defined protocols	RJ45, 8 COM 2		
RS485/CAN (In)	Allows daisy chaining of the RS485 bus, allows MCU access to the CANbus	RJ45, 8 COM 1		
RS485/CAN (Out)	Allows daisy chaining of the RS485 bus, allows MCU access to the CANbus. PC access (with Studio PC) to view battery status	RJ45, 8 COM 1		
Bluetooth BLE	View real time battery status	Wireless		

Indications			
Power LED Green	Power on, Bluetooth connected		
Power LED Off	Power off		
Power LED Flashing	Power on, Bluetooth disconnected		
RJ45 LED Off	No communication		
RJ45 LED Yellow	Communication problem		
RJ45 LED Green	Communication ok		

Environmental			
Operational Temperature	-20C to 60C		
Ingress Protection	IP20		
Humidity	20% to 95% RH		
Star	ndards		
ETSI 300 386, FCC Part 15, AS/NZS 4268,	ETSI EN300 328, EN50663, ETSI EN 300 328		
IEC 62368	3, IEC 60950		
D.	nHS.		

30 V

29 V

\*Cut off when one cell reaches 2.5 V, 16 cells in series. Data subject to change without notice. \*\*If the charge current is 100 A or higher, the battery will automatically reduce the charge current to 6-12 A temporarily. Data subject to change without notice.



**Auto Start Voltage** 

**Shutdown Voltage**