

## Lithium Iron Phosphate Batteries

When the worlds most experienced inverter company joins forces with one of the most experienced battery companies, the outcome is simply stunning.

Designed to meet the needs of 120V SP PRO systems.

The all new SelectCell range of Lithium Iron Phosphate batteries brings a new level of integration and performance to the battery storage industry.

Working together provides an inverter and battery solution that is engineered in harmony, no more incompatibility issues, and all supported from one point of contact.



Ultimate 280 Series



SP PRO  
SPLC - 120V

## Capable of system capacities from 80kWh up to a massive 1MWh with features such as:

- 13.44kWh per battery
- On-Grid or Off-Grid applications
- Prismatic LFP battery cells
- Domestic, commercial or industrial sites
- High energy density with small footprint
- (120V) 144V
- CAN bus controlled for accurate and safe operation
- Installer friendly installation solution
- Modular and scalable



Single or Worker PCC

Manager PCC

## Power Control Cabinets (PCC)

To ensure a reliable, safe and convenient installation, each system will be supplied with a choice of Power Control Cabinets (PCCs). These superbly engineered cabinets will not only allow for the easiest possible integration of multiple batteries but also provide the ability to choose the level of redundancy required in the system. Dynamic setpoints shared with the Selectronic SP PRO inverter will allow on the fly adjustments of charge/discharge parameters should the system develop any stress points, all in the name of keeping your loads always powered.

SelectCell Battery Data	
<b>Electrical Characteristics</b>	<b>Ultimate 120 - 144V (3 batteries in series)</b>
Electrochemical	Lithium Iron Phosphate (LFP)
Cell type	Prismatic
Rated Voltage per battery system	144V
Maximum battery Voltage	156.6V
Battery capacity per string	40.3kWh
Minimum system capacity	80.6kWh
Maximum system capacity	1MWh
Rated continuous charge	20kW / 140A
Max charge or discharge	25.3kW / 175A
Peak discharge 1-2mins	40.3kW / 200A
<b>Communications</b>	<b>Ultimate 120 - 144V (3 batteries in series)</b>
Operation without comms to inverter	No
Communications type to inverter	CAN bus
Individual string by string, and battery data	Yes - PCC required
<b>Data Communication to SP PRO</b>	<b>Ultimate 120 - 144V (3 batteries in series)</b>
Basic data set	No
Advanced data set and monitoring	Yes
<b>Installation</b>	<b>Ultimate 120 - 144V (3 batteries in series)</b>
Operating temperature without derating	15°C to 30°C
Maximum operating temperature	-20°C to +55°C
Charging temperature range	0°C to 45°C
Max battery modules stacked vertically	3
Inter-battery power connection	Harting plug
Inter-battery communications connection	RJ45
<b>Physical</b>	<b>Ultimate 120 - 144V (3 batteries in series)</b>
Dimensions w x d x h (mm) per battery / string	762 x 405 x 448 +/- 2mm / 762 x 405 x 1344
Weight per battery / string	105kg / 315kg
Protection	IP30
Product warranty	8 years
Performance warranty	60% of retained capacity after 10yrs or 35.6MWh per battery, whatever comes first

Power Control Cabinets (PCC)					
	120V - 144V Systems				
	PCC144 - 300F	PCC144 - 500F	PCC144S500F	PCC144M1000	PCC144M1500
Configuration type	Single	Single	Worker	Manager	Manager
Maximum DC Current rating	300A	500A	500A	1000A	1500A
System redundancy	No		Yes with 2 or more Worker cabinets.		
BMS	Individual battery management system			Central battery management system	
DC Voltage range	100 - 162V				
Max inputs per 144V String	2*	4	4	N/A	N/A
kWh capacity	80kWh	120 - 160kWh	120 - 160kWh	120 - 640kWh	120 - 960kWh
Max inverter kW capacity	43kW	72kW	72kW	144kW	216kW
Max cable size for battery inputs	50mm <sup>2</sup>			N/A	N/A
Cable entry method	Cable Gland				
Battery Input fusing	200A			N/A	N/A
Max No. of Worker cabinet inputs	N/A			4	6
Max cable size of Worker inputs	N/A			185mm <sup>2</sup>	
Max No. of inverter outputs	1	N/A		6	9
Max cable size for inverter outputs	120mm <sup>2</sup>		N/A		120mm <sup>2</sup>
Inverter overcurrent protection	500A			1000A	1500A
Inverter DC isolator	No			No	
Battery Isolation device	No			Yes	No
Pre-Charge protection	Yes			N/A	
Dimensions h x w x d	800 x 800 x 300		800 x 800 x 300	1200 x 800 x 300	1400 x 800 x 300
Weight	75kg		75kg	120kg	170kg
IP rating	IP21				
Mounting options	Floor		Wall / Floor	Floor	
Warranty	2 years				

\* PCC 300A supplied with two spare inputs and can be upgraded to PCC 500A.