

## 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 DC SP PRO systems and higher DC Voltage systems up to 628V using alternative inverters.

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 DC

## Capable of system capacities from 40kWh up to a massive 3MWh 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
- Able to work with a range of inverters
- 48V, (120V) 144V, 432V and 628V DC
- CANbus 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	144V DC
Maximum battery voltage	156.6V DC
Minimum battery voltage	126V DC
Battery capacity per string	40.3kWh
Maximum system capacity	3MWh
Rated continuous charge	20kW / 140A
Max continuous 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	CANbus
Individual string by string, and battery data	Yes
<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	4
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)	762 x 405 x 448 +/- 2mm
Weight per battery	105kg
Protection	IP30
Product warranty	8 years
Performance warranty	60% of retained capacity after 10yrs or 35.6MWh per battery,

Power Control Cabinets (PCC) 120 - 144V DC systems						
	PCC144-300F	PCC144-500F	PCC144S-500F	PCC144M-1000	PCC144M-1500	PCC144M-2000
Configuration Type	Single	Single	Worker	Manager	Manager	Manager
Maximum DC Current Rating	300A	500A	500A	1000A	1500A	2000A
System redundancy	No	No	Yes with 2 or more Worker cabinets.			
BMS	Individual battery management system			Central battery management system		
DC Voltage range	100-162V					
No of battery string inputs	5	5	4	N/A	N/A	N/A
Max cable size for battery inputs	50mm <sup>2</sup>	50mm <sup>2</sup>	50mm <sup>2</sup>	N/A	N/A	N/A
Cable entry method	Cable Gland					
Battery Input fusing	200A			N/A	N/A	N/A
No of Worker cabinet Inputs	N/A			4	6	9
Max cable size of Worker inputs	N/A			185mm		
No. of Inverter outputs	3			6	9	12
Max cable size for Inverter outputs	120mm			120mm		
Inverter over current protection	500A			1000A	1500A	2000A
Inverter DC Isolator	No			No		
Battery Isolation device	No			Yes	No	No
Pre-charge Protection	Yes			N/A		
kWh Capacity	80kWh	120-200kWh	120-160kWh	120-640kWh	120-960kWh	120-1280kWh
Max Inverter kW Capacity	43kW	72kW	72kW	144kW	216kW	288kW
Dimensions HxWxD	1000 x 800 x 300			1200 x 800 x 300	1400 x 800 x 300	TBC
Weight	90kg			120kg	170kg	TBC
IP Rating	IP 21					
Mounting Options	Wall / Floor			Floor		
Warranty	2 years					