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The Self Managed LFP battery with internal BMS offers you a safe lithium option for any solution that requires reliability, ease of use and a product that outperforms others

Our ECO battery is infinitely scalable so no application is too big or too small.

Offering economy of scale whilst maintaining reliability and durability, allows you the confidence that the ECO series will keep powering on.

The Impressive specifications and performance come with a 10 year Pro rata warranty when installed and used as set out in our warranty documents and manual.

So when our Premium Series to our of reach, turn with confidence to the PowerPlus Energy ECO Series.

SPECIFICATIONS

	ECO4840P
Nominal DC Voltage	51.2V
Nominal Capacity	4.0kWh (3.994) / 78Ah
Continuous Charge / Discharge	0.5C (C2)
Continuous Charge / Discharge Current	39A
Maximum Current	63A (Limited by circuit breaker)
Charge / Discharge Cycles (80% Remaining Capacity)	2700@100% DoD / 5000@75% DoD / 10,000@50% DoD @25°C op. temp.
Operating Temperature Range	Charge: 0° to 55°C / Discharge -20° to 55°C
Operating Humidity (Non condensating)	85%
Altitude	Below 2000m
Battery Dimensions	635mm D x 434mm W x 88mm H
Battery Mounting Options	Standard 19" Rack Mounting / Horizontal or Vertical
Terminal Connections	Amphenol Surlok 100A Non Keyed
Module Weight	43kg
BMS Over-Volt cut off	58.4V
BMS Under-Volt cut off	40V
BMS Over-Temp cut off	65°C
BMS Under-Temp Cut off (Discharge	-20°C
BMS Under-Temp cut off (Charge)	0°C
BMS Fault Current	200A
Circuit Breaker	2-Pole 63A 360VDC (K Curve)
Self Discharge	14% Per Annum
Battery Fault Current (BMS plus Circuit breaker failure)	1000A
Lithium Composition	Lithium Ferro Phosphate (LiFeP04 or LFP)
IP Rating	IP40
Round Trip Efficiency	>96%
Expected Life @25°C	Greater than 10 years when used as per warranty terms
Cooling	Natural convection
Parallel Stacking	Infinitely stackable - Seek Manufacturers advice
Serial Stacking	Not designed for serial connection
Certifications	Pending IEC:62619:2017, UN38.3, EMC
Shut Down SoC (Per Warranty)	20%
DC Volts Shut Down 0% Load	48.0V
DC Volts Shut Down 100% Load	46.0V
Recovery / Restart Voltage	52V
Continuous Charge Voltage (Per Warranty)	56.0V
Float Voltage	55.2V
Peukert Exponent	1.02
100% recharge	7 to 14 days to keep External SoC counter accurate
Continuous Discharge Current	39A
Continuous Charge Current	39A
Cable Size	Refer relevant manual or cable sizing standard
Note	In our efforts towards constant product enhancement this specification is subject to change to at anytime without notice