

- Built by EVE for Eco Power Direct
- Grade A certified prismatic EVE cells
- Optional full system monitoring available up to 45 packs
- RS485 MODBUS Communication
- RS232 Communication
- Standard 19" Rack mount system
- Excellent temperature performance
- CE test and certification
- Internal active balancing
- Excellent round trip efficiency >95%
- 10 Years design life +4000 Cycles
- Over & under voltage & current protection
- 5 Years limited warranty, (80%DOD @ 0.5C/0.5C 25°C)
- Excellent choice for time/load shifting, ESS, off grid/hybrid
- Internal BMS (Battery Management System)
- Extremely safe and high quality
- Default self regulating charge limit set to 20A giving standard operating temperature range of 0°C to 55°C out of the box with no additional requirements
(this feature can be disabled prior to shipment if the user can control the charge current @ different temperatures externally or cell temperature stays in the window 11-44 °C)



ELECTRICAL SPECIFICATIONS	
Rated capacity @ 25°C Constant current discharge	100Ah
Rated voltage	48.0V
End of discharge voltage	44V
Storage temperature	-20 ~ 45 °C Short term (1 month)
	0 ~ 35 °C Long term (1 year)
Charge/discharge efficiency round trip	>95%
Battery Impedance	<30mOhm
Max RS485 connections (per string)	15 Units

TEMPERATURE SPECIFICATIONS	
Operating temperature charging	0 ~ 10 °C Continuous 20A
	11 ~ 44 °C Continuous 50A
	45 ~ 55 °C Continuous 20A
Operating temperature discharging	-20 ~ 10 °C With capacity loss
	11 ~ 44 °C Optimal
	45 ~ 55 °C With capacity loss
Storage temperature	-20 ~ 45 °C Short term (1 month)
	0 ~ 35 °C Long term (1 year)

CHARGE SPECIFICATIONS	
Current recommended	20A Default BMS limited value (optional deactivation prior to shipment, contact us by email)
Current absolute max	100A (1C) 1 Cycle per 24hr
Current max continuous	50A (0.5C)
Recommended charge voltage	53.5V
Recommended equalize voltage	53.5V
Recommended float voltage	51.0V

DISCHARGE SPECIFICATIONS	
Discharge current	20A (0.2C)
End of discharge voltage	44V
Absolute max	100A (1C) 1 Cycle per 24hr
Max Continuous	50A (0.5C)

MECHANICAL SPECIFICATIONS	
Chemistry	LiFePO4, Prismatic cell
Unit weight	45Kg
Dimensions	410 x 442 x 177.5mm
IP rating	IP20
Mounting	19" rack mount, industry standard

Authorised Distributor

Eco Power Direct, Business HQ, 11 Oak Street, Nottingham, Nottinghamshire, NG5 2AT, UK



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CHARGE / DISCHARGE METHOD	
Charging	Acclimatise battery for 4 hours @ 25°C , Charge @ 0.1C to 54.4 Volt
Discharging	Acclimatise battery for 4 Hours @ 55°C , Discharge @ 0.1C to 43.2 Volt
	Acclimatise battery for 4 Hours @ 40°C , Discharge @ 0.1C to 43.2 Volt
	Acclimatise battery for 4 Hours @ 25°C , Discharge @ 0.1C to 43.2 Volt
	Acclimatise battery for 4 Hours @ 25°C , Discharge @ 1C to 43.2 Volt
	Acclimatise battery for 4 Hours @ 55°C , Discharge @ 0.33C to 43.2 Volt
	Acclimatise battery for 24 Hours @ 0°C , Discharge @ 0.1C to 43.2 Volt
	Acclimatise battery for 24 Hours @ -10°C , Discharge @ 0.1C to 43.2 Volt

DISCHARGE RESULTS							
Temperature & Rate	55°C @ 0.1C	40°C @ 0.1C	25°C @ 0.1C	25°C @ 1C	25°C @ 0.33C	0°C @ 0.1C	-10°C @ 0.1C
Capacity	103.279	102.610	101.53	100.915	101.335	87.680	78.990

