

POWERFLOW

Fully Integrated AC Battery Storage

Sundial M6/M8 & Sundial S6/S8



2018: Battery Storage

- **Storage capacity options** to suite design requirements with 6kWh and 8kWh versions, expandable using Sundial S and universally compatible across the Sundial range.
- **Safer** Lithium Iron Phosphate battery chemistry, reliable and long lasting. No high DC voltages in the system.
- **Advanced** battery management system (BMS) increases safety, battery cycle life and system performance.
- **Next generation** instant energy capture and release technology.
- **Internet** connected gateway and free monitoring portal also allows for night rate storage control.
- **Automotive** grade ultra high quality finish in metallic silver and carbon fibre.
- **Universally Compatible** with any new or existing solar PV generation system.
- **Fast Installation** using PowerFlow SPEEDFIT and fully automated software setup.
- **Comprehensive** 5/10 year warranty and full UK technical support from product designers.
- **Designed** and manufactured in Herefordshire, England.



Sundial®



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Technical Specifications	Sundial M6 and M8 (SDM-6.0-1500-10) (SDM-8.0-2000-10)	Sundial S6 & S8 (SDS-6.0-1500-10) (SDS-8.0-2000-10)
DC Battery Parameters		
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	Lithium Iron Phosphate (LiFePO4)
Maximum Battery Capacity (M6 / M8)	6.0kWh / 8.0 kWh	6.0kWh / 8.0 kWh
*Number of Cycles (80% DoD)	> 6000	> 6000
Nominal Battery Capacity (M6 / M8)	4.8 kWh / 6.4 kWh	4.8 kWh / 6.4 kWh
BMS Protection: (Over/Under) Voltage/Current/Temperature	Yes	Yes
Active Cell Balancing	Yes	Yes
AC Electrical and Operation Parameters		
Input and Output: Voltage / Frequency	180 - 270V AC / 47.5 - 55 Hz	180 - 270V AC / 47.5 - 55 Hz
Input Power: Nominal (M6 / M8) (Automated dynamic charging power) (M6 / M8)	900W / 1200W Yes / (18 / 24 x 50W adaptive steps)	900W / 1200W Yes / (18 / 24 x 50W adaptive steps)
Output Power: Nominal (M6 / M8) (Automated dynamic discharge power) (M6 / M8)	1500W / 2000W Yes / (12 / 16 x 125W adaptive steps)	1500W / 2000W Yes / (12 / 16 x 125W adaptive steps)
Dynamic Reactive Power Control during Discharge	Yes / 1 (unity) 0.8cap, 0.8 ind	Yes / 1 (unity) 0.8cap, 0.8 ind
Power Factor Correction during Charge	Yes	Yes
Inverter: Topology / Capacitance / THD	Galvanic Isolation / No Electrolytic Capacitance / <3%	Galvanic Isolation / No Electrolytic Capacitance / <3%
Start Up "Trigger" Power Rating: Export / Import	95W / 170W	95W / 170W
Operational Parameters		
Dimensions (H / W / D) (without cable connections)	1350 / 440 / 320 mm	1350 / 440 / 320 mm
Weight (M6 / M8)	110 / 140 kg	110 / 140 kg
Mounting Type	Floor Standing	Floor Standing
Ingress Protection	IP 20	IP 20
Operating Temperature Range: Charging / Discharging	0 to +45 / -10 to +60 (degrees C)	0 to +45 / -10 to +60 (degrees C)
Max Noise Emissions (with Fan running)	25dB	25dB
Maximum No. of Devices / Battery Capacity / Output Power	1 Device / 8.0 kWh / 2000W	3 Devices / 24 kWh / 6000W
Input / Output Connections	PowerFlow SPEEDFIT	PowerFlow SPEEDFIT
Internet Monitoring Portal / OFF peak charging control	Yes (using Energy Gateway) / Yes (using portal control)	Yes (using Energy Gateway) / Yes (using portal control)
Communication Bus / Connection	RS-485 / RJ45	RS-485 / RJ45
Energy Measurement / Reaction Time	F-POINT Technology / 400ms	F-POINT Technology / 400ms
Cooling Concept	Natural Convection / Temperature Controlled Forced Air	Natural Convection / Temperature Controlled Forced Air
Solar Immersion Controller Compatibility	ERS MINI & ERS PRO	ERS MINI & ERS PRO
Display	Crystal Blue Backlit LCD Display	None
Country of Manufacture	England	England
Finish	Metallic Star Silver / Gloss Carbon Fibre	Metallic Star Silver / Gloss Carbon Fibre
**Warranty: Battery / Electronics	4000 cycles or 10 Years / 5 Years	4000 cycles or 10 Years / 5 Years
Compliant Standards	EN 50438, VDE 4105, CEI 021, G83/2, G59/3, G100, EN621091, EN62109-2, EN61000-2-3-6, RoHs, CE	EN 50438, VDE 4105, CEI 021, G83/2, G59/3, G100, EN621091, EN62109-2, EN61000-2-3-6, RoHs, CE

*Battery cycle life is estimated based on lab data and live testing

**Warranty subject to terms and conditions, see latest warranty documentation for full details.
Product specification subject to change without notice.

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