

Standard Home & Business Battery Range

freedom WON <small>Plug into The Current Future Green Energy solutions & Electric Mobility</small>	Home 5/4	Home 10/8	Home 15/12	Home 20/16	Home 30/24	Business 40/32	Business 60/48	Business 80/64
Total Energy [kWh]	5	10	15	20	30	40	60	80
Energy 90% DoD [kWh] (1)	4.5	9	13.5	18	27	36	54	72
Energy 70% DoD [kWh] (1)	3.5	7	11	14	21	28	42	56
Current Capacity [Ah]	100	200	300	400	600	800	1200	1600
Max/Continuous Current [A] (2)	125/100	125/100	250/200	250/200	375/300	375/300	500/400	750/600
Nominal Voltage [V]	52V (to suit 48V inverters) min 48V, max 56V							
Weight [kg]	56	104	154	207	306	404	601	798
Dimensions [mm] Height x Width x Depth	550 x 372 x 265	916 x 372 x 265	916 x 540 x 265	916 x 712 x 265	953 x 1044 x 265	1776 x 584 x 310	1776 x 859 x 310	1858 x 1142 x 310
Enclosure	Aluminum – power coated white front and sides with aluminum back, rated for indoor use							
DC Connection Cables per +’ve and -’ve (std length 1.8m)	1 x 35 mm ²	1 x 35 mm ²	2 x 35 mm ²	2 x 35 mm ²	3 x 35 mm ²	3 x 35 mm ²	4 x 35 mm ²	4 x 35 mm ²
External Interfacing	Multicore cable – Relay signal – Remote Enable for Inverter, Charger, Solar Charge Controller, multi purpose programmable output. Analogue Outputs – 0-5V for Charge Current Limit and State of Charge. CAN bus – RJ45 (Ethernet) Socket.							
Protection	Shunt Trip Circuit Breaker sized to suit max current, can be tripped by BMS if critical fault, manual reset. Includes over current, cell under and over voltage, temperature, weak cell detection.							
Human Interface	State of Charge Display (0 – 100%), Error light, Error Reset Button, Serial RS232 Plug for Programming, WiFi Remote Monitoring (optional)							
Warranty	10 years (or 3500 cycles) warranty for average 70% DoD, and max 90% DoD.							
Service Life (3)	15 years (5000) cycles expected life at 70% DoD (1), 20 years (7000) cycles at 50% DoD.							

1) DoD = Depth of Discharge max allowable 90% DoD, recommended 70% average daily DoD of extended life, 50% DoD for optimal life.

2) Contact Freedom won for information on the High Power (HP) upgrade options, should more power be required.

3) End of Life (EoL) defined as battery dropping to 70% of Beginning of Life (BoL) capacity.

Contact us for pricing:

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