

MEGATOWER RANGE

Range Overview Specification Sheet

freedom
WON



megaTower Plus 6M4T

megaTower Extra 10M4T

Model	FWMT-0885-HVPA-07670648	FWMT-1475-HVXA-12781080
Total Energy Capacity [kWh]	885	1475
Usable Energy, 90% DoD [kWh]	796	1327
Recommended Energy per Cycle, 80% DoD [kWh]	708	1180
Battery Current Capacity [Ah]	320x4	
Nominal Voltage [V] ¹	691	1152
Max/Min. Operating Voltage [V]	767/648	1278/1080
Max/Cont. Discharge Current [A] ²	880/800	
Max/Cont. Discharge Power [kW]	605/553	1014/922
Max/Cont. Charge Current [A] ²	640/384	
Max/Cont. Charge Power [kW]	442/265	737/442
Crated Weight [kg]	Frame: 530 Isolation Panel: 98 Busbars: 58 Modules: 284	Frame: 788 Isolation Panel: 98 Busbars: 58 Modules: 284
Total Weight - Including Rack [kg]	5984	9940
Overall Dimensions - H x W x D [mm] ³	1559x5071x714	2531x5071x714
Crated Dimensions - H x W x D [mm]	Frame: 780x1700x1740 Isolation Panel: 1046x596x486 Busbars: 120x140x4060 Modules: 422x1320x772	Frame: 900x1600x2650 Isolation Panel: 1046x596x486 Busbars: 140x140x4100 Modules: 422x1320x772
Module and Cell Configuration	36 Cells per module in series, 6 modules in series per tower. 4 parallel towers per battery	36 Cells per module in series, 10 modules in series per tower. 4 parallel towers per battery
Module Weight [kg]	234	
DC Connection	Busbar in Isolator cabinet - installer to connect appropriate cables	
DC Connection - Fly Leads (no. per electrode) [mm²]	2 x 95mm² Polybraid Cable	
Module Enclosure	Mild Steel - powder coated white, IP54 enclosure rating, rack mounted to suit racks on both walls inside 12m long High Cube shipping containers with centre aisle. Note: Container floor might require reinforcement, container weight limitations apply for transport	
Protection	Main bank fuses (1000A), fuses in each module (400A), contactors in each master module. Protection against short circuits, overcurrent, cell under and over voltage and temperature, weak cell detection	
Control Interface	CAN Bus, Ethernet/Gateway	
Human Interface	RJ45 plug for programming or PC access, On/Off button with indicator light	
Remote Monitoring	Real time data logging and remote monitoring over Ethernet. Internet connection required	
Service Life ⁴	Standard Warranty: 10 year (or 8000 cycles) 80% DoD, 0.5C Max Discharge, 0.3C Continuous Discharge, 0.3C Max Charge, Max 25deg. Expected life: >15 yrs (>8000 cycles) at 80% DoD	
Battery Standards	Designed and built according to IEC62619, IEC62040, IEC61000, UN38.3	

Notes to Specification Sheet

1. Voltage suitable for various high DC voltage inverters. Please enquire with Freedom Won for pairing support.
2. Max current duration 2 min every 10min. 1.5 x Max overload can be handled for 5 seconds. Current limits rated for 10°C to 25°C battery temperature. Derating will apply outside this temperature range.
3. These dimensions do not include the isolation panel on the side. Power supply and isolation panel dimensions H x W x D [mm] 930x440x370mm. Isolation panel door opens towards the front face of the megaTower. Isolation panel can be mounted either side of the megaTower.
4. Refer to warranty document for further details.
5. Isolation panel requires 220VAC to ensure the backup batteries are charged and balanced.

DISTRIBUTORS AND RESELLERS

Contact your nearest Accredited Freedom Won Distributor or Reseller Installer for further sales and technical support.

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