

MEGATOWER RANGE

Range Overview Specification Sheet



megaTower Plus 6M4T



megaTower Extra 10M4T

freedom
WON

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	800/640	
Max./Cont. Discharge Power [kW]	553/442	922/737
Max./Cont. Charge Current [A] ²	640/384	
Max./Cont. Charge Power [kW]	442/265	737/442
Crated Weight [kg]	Frame: 530 PSU Panel: 98 Busbars: 58 Modules: 284	Frame: 788 PSU Panel: 98 Busbars: 58 Modules: 284
Total Weight - Including Rack [kg]	5984	9940
Overall Dimensions - H x W x D [mm] ³	1559x5489x714	2531x5489x714
Crated Dimensions - H x W x D [mm]	Frame: 780x1700x1740 PSU Panel: 520x540x114 Busbars: 120x140x4060 Modules: 422x1320x722	Frame: 900x1600x2560 PSU Panel: 520x540x114 Busbars: 140x140x4100 Modules: 422x1320x722
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	
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, Expected life: >15 years (>8 000 cycles) at 80% DoD	

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 10 min. 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 PSU panel on the side. Power supply and isolation panel dimensions H x W x D [mm] 1004x360x504mm. PSU panel door faces container wall and requires 900mm space for mounting and the door to open.
4. Refer to warranty document for further details.
5. Isolation panel requires 220VAC to ensure the backup batteries are charged and balanced.

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