CONTAINERISED STORAGE SYSTEMS

Container Size

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Inverter Size Inverter Oty

₽ Battery Qty

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6M - 200 - 100 - 1.1

Battery Size

Range Overview Specification Sheet

Model Number Breakdown:

freedom Won





(i) / (i) Click for more info

Series (Base Building Block) $\langle t angle$		6M-200-100			6M-300-150			12M-300-150	12M-500-250	12M-500-500		12M-885-500	18M-664-500	18M-885-50	
Model 1	6M-200-100-1.1	6M-200-100-2.1	6M-200-100-2.2	6M-300-150-1.1	6M-300-150-2.1	6M-300-150-2.2	6M-200-150-2.2	12M-300-150-4.2	12M-500-250-2.1	12M-500-500-2.1	12M-500-500-4.1	12M-885-500-2.2	18M-664-500-4.2	18M-885-500-4	
Product Overview															
Total Storage [kWh]	200	4	00	300 60		00	400	1200	10	00	2000 1770		2656	3540	
Max. Power[kW]	1	00	200	1	50		300		250 500		00	1000			
Expansion Options ²	6M-200-100-2.1 or 6M-200-100-2.2	or 6M-200-100-2.2 N/A or 6M-300-150-2.2 N/A 12M-500-150-4.2 12M-500-500-4.1					1	N/A	18M-885-500-4.2	N/A					
Certifications	EN62109-1/-2, El	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4, South Africa NRS097-2-1:2017, IEC61727, IEC62116, IEC 61683													
Warranty ³	10 Year on Batte	10 Year on Battery / 10 Year on Inverters / Back-to-back on Sundry Items													
BMS Communication	RS485, CAN	RS485, CAN													
EMS Communication 4	RS485, TCP/IP	RS485, TCP/IP													
Value-Added Features															
Deployment	Plug-and-play	Plug-and-play													
Cable Entry	Bottom and side	Bottom and side entry (Glanding plate provided)													
Monitoring and Control	Freedom Won El	Freedom Won EMS with 1-Year Cloud Software License for 5 Devices - Online monitoring, data logging, remote control capability, power meter integration and 3rd party PV string inverter control													
Fire Detection and Surpression	Fire detection pa	Fire detection panel (EN 54 approved), smoke detectors, indicator bell and siren; high sensitivity smoke detection air sampler (HSSD)													
	Inert gas fire sup	Inert gas fire suppression for the electrical risk (IG541)													
	All approved to E	All approved to BS EN 15004 with the design concentration of higher-class A for electrical risk and verified by an approved test report and approval BSI (British Standard Institution)													
AC In and AC Out (Termination Box)[A]		315				500				800			1600		
Container Specifications															
Grade	Grade A														
Material	COR-TEN steel -	White													
Size[m]				6						12			1 x 12 a	nd 1 x 6	
External Height [mm]	2884														
Weight Estimate [kg]	7320	8860	10000	8310	10680	11990	10330	18490	15900	17490	25320	25480	25290 + 11560	29720 + 1156	
Cladding	Fluted Chromad	ek - White													
Insulation	50mm Rock Woo	ol													
Flooring	Light grey 3mm	polyurethane rubb	erising												
Battery Specifications (per battery buil	lding block)														
Battery Chemistry	Lithium Iron Pho	sphate(LiFePO4)													
Battery Model (i)		200/160 HV	00/160 HV 300/240 HV				200/160 HV	<u>300/240 HV</u>		500/400HV+		megaTower Plus 6M4T 885kWh	megaTower Plus 6M3T 664kWh	megaTowe Plus 6M4T 885kWh	
Nominal Voltage [V]		512 640 691													
Service Life		>16 years (>5 500 cycles) expected life at 80% DoD per cycle, >20 years (>7 500 cycles) at 50% DoD										>15 yrs (>8 000 cycles) at 80% DoD			



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6M - 200 - 100 - 1.1

Battery Size

Range Overview Specification Sheet

Model Number Breakdown:

freedom W 0 N



(i) / (i) Click for more info

Series (Base Building Block) $\langle t \rangle$	6M-200-100			6M-300-150			6M-200-150	12M-300-150	12M-500-250	12M-500-500		12M-885-500	18M-664-500	18M-885-500			
Modules ¹	6M-200-100-1.1	6M-200-100-2.1	6M-200-100-2.2	6M-300-150-1.1	6M-300-150-2.1	6M-300-150-2.2	6M-200-150-2.2	12M-300-150-4.2	12M-500-250-2.1	12M-500-500-2.1	12M-500-500-4.1	12M-885-500-2.2	18M-664-500-4.2	18M-885-500-4			
Inverter Specifications (per inverter build	ing block)																
Inverter Make and Type	Encore HPS Hyb	rid Inverter															
Inverter Model (i)	<u>HPS100</u> <u>HPS150</u>									<u>HPS250</u> <u>HPS500</u>							
Nominal Output Voltage [V]	400																
Rated Outut Power [kW] ⁵	100 200 150 300							250	5	00		1000					
AC Connection	3W+N+PE	3W+N+PE															
Output Frequency [Hz]	50/60																
THDi/THDu[%]	<3 / ≤1 linear; or :	≤5 nonlinear															
Power Factor	1 lagging~1 leadir	1 lagging~1 leading															
Standby Power [W]	<20																
Optional PV Components (maximum pos	sible values/quar	ntities stated)															
MPPT Charge Controller Specifications																	
MPPT Mode		Buck MPPT								Boost MPPT							
Max. Number of MPPT Modules ⁶		3	6		4		8		5		0	20					
Max. MPPT Power [kW]	60																
Max. PV Power [kW]	2	40	480	2	40		480		360	720 1440			1440				
Recommended PV Input Voltage Range [V]				600	~880						450	~650					
Max. Number of Charge Controller Cabinets		Built into inverter								2 4							
Photovoltaic Combiner Specifications																	
PV Coupling	DC																
Max. Number of PV Strings	1×	< 24	2 x 24	1>	:24		2 x 24		1 x 48	2)	(48		4 x 48				
Max. PV Input Voltage [V]	1000																
Max. Input String ISC [A]	20																
Input Fuse [A]	25																
Max. Number of Outputs (Breakers)		4	8		4		8		6		2		24				
Max. Number of Strings per Output		6 8															
Output Breaker Rated Current [A]	125																
Output Cable Terminal [mm ²]	50																
PV SPD Specification [V]	1200 (Type I + Ty	pe II)															
Protection	Short-circuit, overload and surge																

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NCW



CONTAINERISED STORAGE SYSTEMS

Container Size

Range Overview Specification Sheet







(i) / (i) Click for more info

Series (Base Building Block)	6M-200-100			6M-300-150			6M-200-150	12M-300-150	12M-500-250	12M-500-500		12M-885-500	18M-664-500	18M-885-500
Model ¹	6M-200-100-1.1	6M-200-100-2.1	6M-200-100-2.2	6M-300-150-1.1	6M-300-150-2.1	6M-300-150-2.2	6M-200-150-2.2	12M-300-150-4.2	12M-500-250-2.1	12M-500-500-2.1	12M-500-500-4.1	12M-885-500-2.2	18M-664-500-4.2	18M-885-500-4.2
Ordering Information														
Lead Time	6-8 Weeks	6-8 Weeks												
Customisation Ontions 7	Advanced EMS f	Advanced EMS features and additional device licenses available												

Notes to Specification Sheet

Model Number Breakdown:

1. CSS base models include batteries, inverters, fire detection and suppression systems, and the Freedom Won EMS. PV components such as MPPTs, MPPT cabinets, and PV combiner boxes are sold separately.

2. If an expansion option is required that is not currently available as a standard model option, please inform Freedom Won of this requirement.

Inverter Size Inverter Qty

H Battery Oty

6M-200-100-1.1

Battery Size

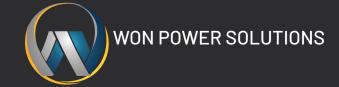
3. See relevant battery and inverter warranties for further details on warranty guarantees and conditions.

4. To enable EMS functionality on the load and main supply, RS485 or Modbus TCP compatible 3-phase power meters are required. Additionally, they must have an auxiliary power supply. All third-party devices must also be TCP/IP and Modbus TCP compatible to communicate with the EMS.

5. Any motors exceeding 7% of the selected HPS inverter's power rating must be fitted with a VSD. The total connected inductive load without VSD's may not comprise more than 15% of the HPS inverter's rated power.

6. Please refer to the HPS specification sheets for the maximum number of MPPT charge controllers compatible with each HPS inverter model.

7. Additional EMS features and device license are available upon request, please contact Freedom Won for more information.



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