

1MWh Container Specifications

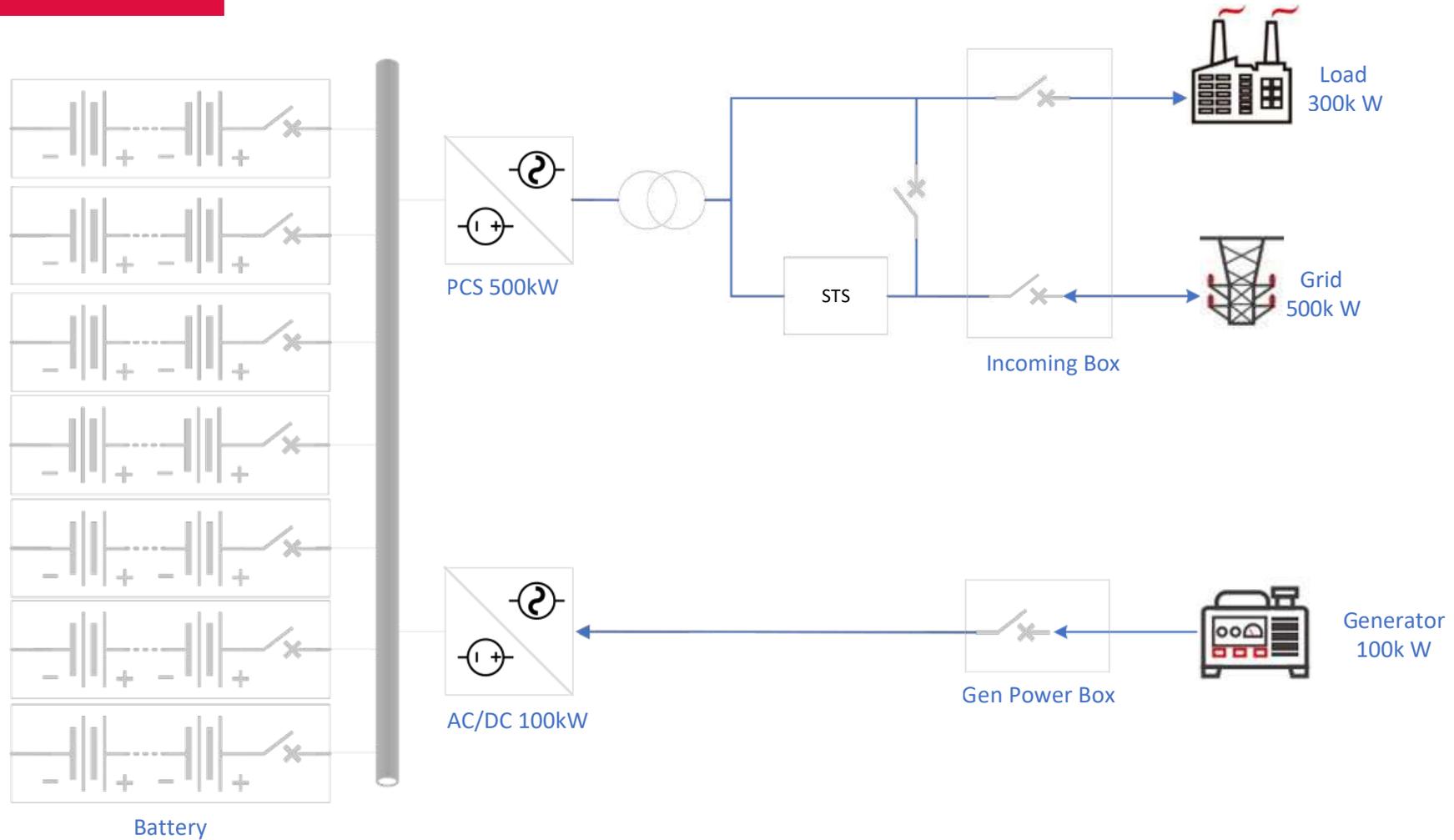






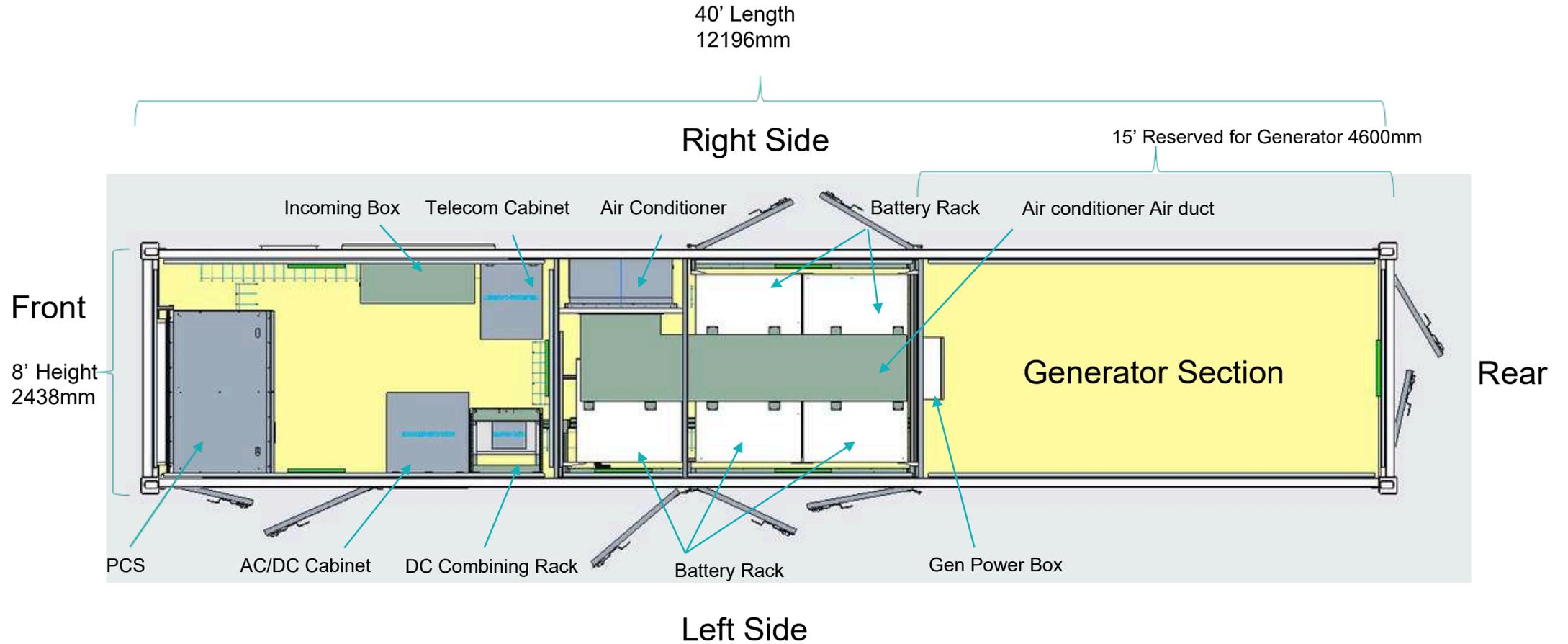


System Structure



Item	Customer requirements	Remarks
Container Type	ISO 20-ft or 40-ft standard or custom container	
Energy Capacity	>4MWh	
Power Capacity	>2MW	
RTE	>93%	
Life Span	≥20years or ≥8000cycles at 80% Depth of Discharge (DoD)	
DC Bus Voltage	Maximum 1500V DC	
Battery Management System (BMS)	Integrated, with cell-and string-level monitoring. Balancing and diagnostics	
Communication Protocols	Modbus TCP/IP, IEC61850, or other standard protocols	
Safety Standards	UL9540, UL1973, IEC62619, IEC63056, or equivalent	
Fire Resistance	Fire-resistant construction materials	
Emergency Shutdown	E-stop buttons, both local and remote	
Warning Labels	Hazard labels for electrical, thermal, and chemical risk	

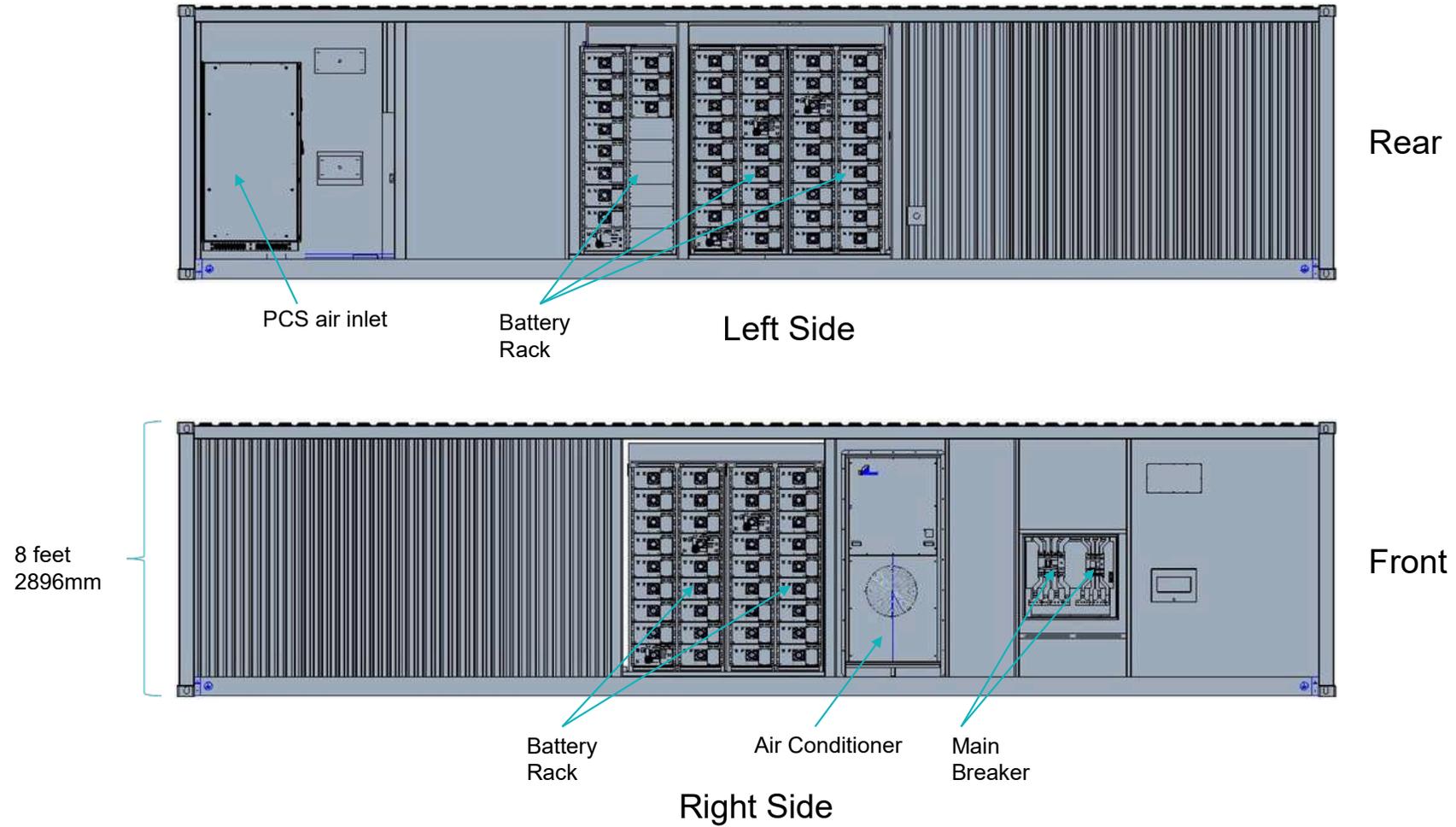
Container Layout



Container Layout



Container Layout



Cell and Pack Specification

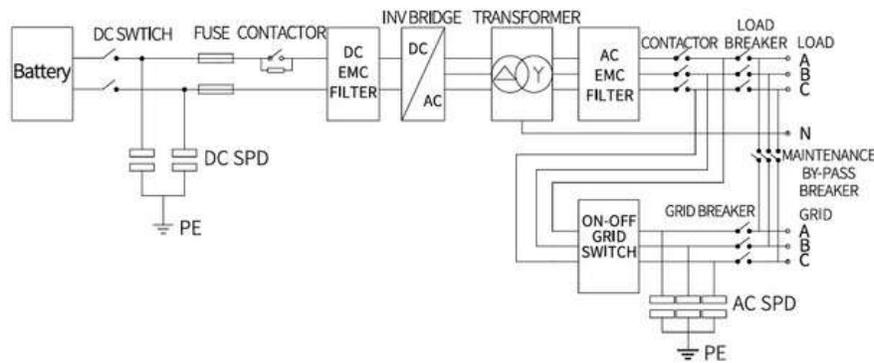


Item	Specification	Remark
Cell Type	Sodium-ion	
Rated Voltage	3.1V	
Rated Capacity	210Ah	(25±3) °C, 0.5C
Resister (1kH)	≤0.3mΩ	20%SOC
Voltage Range	2.0~3.85V	
Weight	(4.90±0.15) kg	
Dimension(W*D*H)	6.77''*2.81*8.16'' 173*71.4*207.1mm	
Continues Charging/Discharging Current	105A	25±3°C
Max. Charging/Discharging Current	210A	
Cycle Time(RT, 0.5C)	≥5000	25°C, 0.5P, SOH≥70%
Discharge Temperature Range	10~50°C	
Charge Temperature Range	10°C~50°C	



Item	Specification
Configuration Rated	1P20S
Voltage Working	62V
Voltage Range	40-76V
Rated Capacity	210Ah
Rated Energy	13.02 kWh
Standard Charging/Discharging Current	0.5C
Self-discharge rate	<3%/month
Cooling Method	Air Cooling
Dimension(L*W*H)	18.27''*36.34''*9.06'' 464*923*230mm
Weight	128kg
Discharge Temperature Range	10~50°C
Charge Temperature Range	10°C~50°C
IP Rating	IP20
Insulation Value	≥100MΩ (DC2500V, 60s)

Hybrid Inverter Specification



Category	Parameter	MEGA0500TS-480S
AC(on-grid)	Max. output power (kVA)	550
	Rated output power (kW)	500
	Rated voltage(V)	480V High-leg Delta with split phase
	Voltage range (V)	384~552
	Rated current (A)	601
	Rated frequency (Hz)	50/60
	Frequency range (Hz)	45~55 / 55~65
	THDi	<3%
	Power factor	1leading~1lagging(settable)
	Grid type	3W/N/PE
AC(off-grid)	Max. output power (kVA)	550
	Rated power (kW)	500
	Rated voltage (V)	480V High-leg Delta with split phase
	Rated current (A)	601
	THDu	<1% linear; or<5% nonlinear
	Rated frequency (Hz)	50/60
	Overload capacity	110% long term
Battery	Battery voltage range (V)	500-900
	Max. current (A)	1,128
General data	Dimension W*D*H	63''*41.34''80.7'' = 1,600*1,050*2,050mm
	Weight (kg)	2,665
	Operation temperature (°C)	-30 ~ 55
	Relative humidity	0 ~95% non-condensing
	Ingress protection	IP21
	Noise emission (dB)	<70
	Operating altitude (m)	<5,000(>3,000 Derating)
	Cooling	Air Cooling
Display and communication	Display	LCD touch-screen
	BMS communication	RS485, TCP/IP, CAN
	EMS communication	RS485, TCP/IP, CAN