



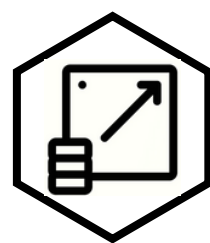
Boson Mega+ High Voltage Energy Storage System

135-750V, 210Ah

LiFePO₄ Battery expandable upto 3MWh



Reliable LFP
Cells



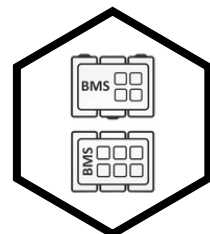
Scalable



>10 Years
design life



Cost
effective

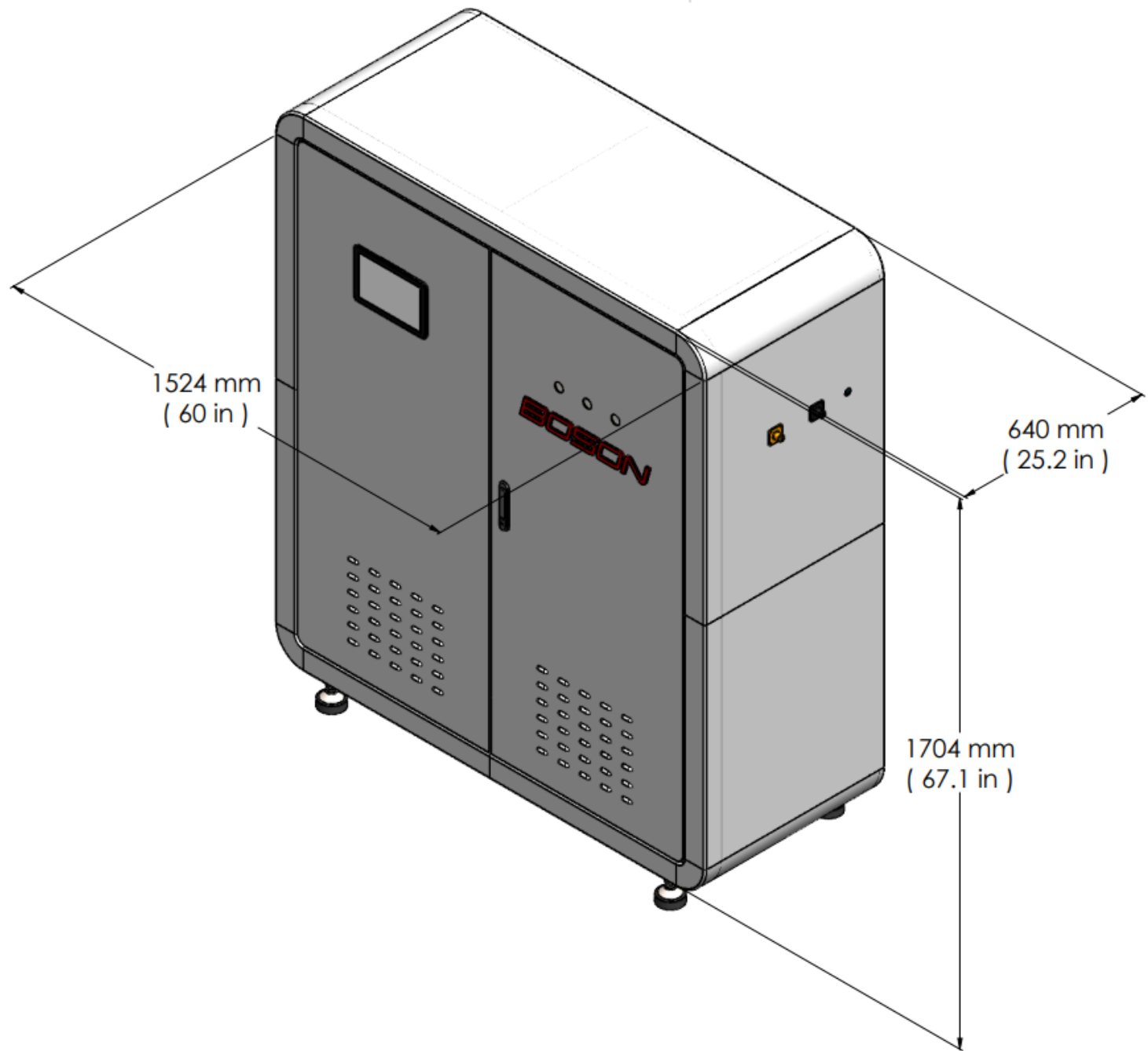


Smart BMS
system



≥6000 cycles

BOSON
RENEWABLES



System specifications

No. of clusters	1	2	3	4	5	6	7	8	28	29	30
Battery capacity	129.04kWh	258.08kWh	387.12kWh	516.16kWh	645.2kWh	774.24kWh	903.28kWh	1032.32kWh	3.61MWh	3.74MWh	3.87MWh
Nominal Voltage	614 V										
Voltage range	518-700 V										
Nominal char/dischar current	105/105 A										
Weight of cluster**	1000 Kg	2000 kg	3000 Kg	4000 kg	5000 kg	6000 kg	7000 kg	8000 kg	28000 kg	29000 Kg	30000 kg

Cluster specifications

Cluster capacity range	129.04kWh
Max. no. of clusters in parallel	30
Nominal cluster voltage	614 V
Minimum operating cluster voltage	518 V
Maximum operating cluster voltage	700 V
Standard charge current	105 A
Standard discharge current	105 A
Maximum charge/discharge current	210 A
Recommended DoD	90%
Cell Chemistry	LiFePO ₄
Communication Interface	RS485/ CAN
Cycle life	≥6000 cycles @ 70% SoH
Ingress Protection Class	IP20
Operating Temperature - Charge	0~45 °C
Operating Temperature - Discharge	-20~45 °C
Dimensions of a cluster	1704 X 1524 X 640 mm

Storage Temperature	0~35 °C
Cooling Type	Forced air cooling
Battery Protection	Over-current Over-voltage Short-circuit Under-voltage
Warranty	10 Years
Module & cell compliance	UN 38.3, UL, BIS, IEC

** Weight and dimensions are subject to change depending on capacity of the HV systems.



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