

WECO



Efficient.
Reliable.
Cool.

LI - KOOL

LIQUID COOLED ENERGY STORAGE SYSTEM

Innovative Liquid Cooled ESS
233 kWh – 373 kWh

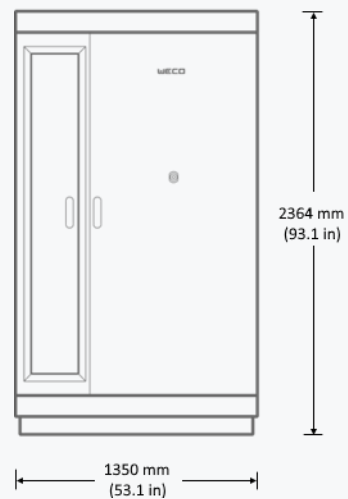
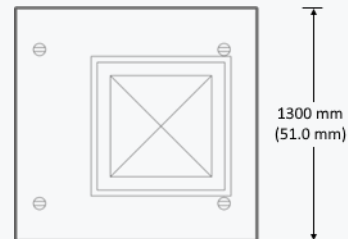
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LI-KOOL

0.5C / 1C LIQUID COOLED ESS

Specifications

	233 kWh	373 kWh	
BATTERY	Lithium Iron Phosphate		
	3.2V, 280 Ah		
	1P-312S	1P-416S	
	6S	8S	
SYSTEM	Gross Capacity	233 kWh	
	Total Usable Capacity	210 kWh	
	Rated Voltage	996 Vdc	
	Voltage Range	874 ~ 1100 Vdc	
	Standard Charge / Discharge Current	140 A / 0.5C	
	Peak Charge / Discharge Current	173 A 5min	
	Recommended Dod %	90%	
	System Short Circuit Current (Fuse Protection)	4200 A -13 ms	
	Battery Short Circuit System	9550 A - 80 ms	
	HV BOX Fuses Protection	1500 V - 300 A	
	HV BOX Manual Breaker	1500 V 250 A Type C Automatic Thermal Protection	
	HV BOX Contactor Rating Current	350 A on both Poles 1500 V 350 A on both Poles 1500 V	
	CYCLES	Number Of Cycles 1C (Available Q2 2024)	≥ 4500 (1C, 80% DOD, 70% SOH)
		Number Of Cycles 0.5C	≥ 8000 (0.5C, 90% DOD, 70% SOH)
COMMUNICATION	Battery Communication	CAN	
	Data Communications-Modbus	RS485	
	APP Connectivity	WeCo NooR App	
	Cloud Platform	LAN + 4G	
BMS PROTECTIONS	SOC Alerts	Built-in	
	Cell Over And Under-Voltage Protection	Built-in	
	Overload Protection	Built-in	
	High Temperature Alarms	Built-in	
PASSIVE PROTECTIONS	Smoke Alarm	Built-in	
	Flame Device	Built-in	
	DC Protection	Built-in	
STORAGE REQUIREMENTS	AC SPD Protection	Built-in	
	Max. Humidity	RH ≤95% (no condensation)	
	Storage Ambient Temperature	-20 °C < T < +60 °C	
	Max. Humidity	85% without condensation	
	Operations Below 0°C	Defrost Cycles	
	Temperature (SOC: 20% ~ 50%)	Less than 3 months: 0 < T < 45 °C	
	Shelf Life Without Inspections (SOC : 20% ~ 50%)	> 3 months: 15 < T < 35 °C	
	Elevation	≤ 2000 m	
	Dimensions (W x D x H) (mm)	1300 x 1300 x 2355	
	Weight	2800 kg	
	IP Rating	IP54	
	Cooling Method	Heat Pump and Chiller for Liquid Cooled Circuit	
	Stand-by Self Consumption (A/C + HV BOX) Ready To Work Status	250 W	
	A/C Stand By Consumption (Inactive Compressor Status Via EMS)	50 W	
	A/C Consumption at Max. Cooling Power	4500 W	
	A/C Consumption at Max. Heating Power	3500 W	
	HV BOX Self Consumption	20 W	
	Battery Type	Prismatic Liquid Cooled	



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HYBO TL SYSTEMS

OUTDOOR SERIES & Li-KOOL

Innovative Hybrid Inverters for BESS Applications ON and OFF grid

233kW - 273kW

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LI-KOOL & HYBO TL

SYSTEM BESS



HYBO TL 1000V ESS MATCHING CHART

	Power Device	ESS Model	Number of ESS	PV Power	AC Power	Std Capacity	Ratio C-rate	Max. Capacity ESS	Systems in parallel	Max. Parallel Combined Capacity
PCS	HYBO TL PCS 120	Li-Kool 233	1	-	120 kW	215 kWh	0.5	430 kWh	10	1.2 MW AC / 4.3 MWh
	HYBO TL PCS 180		1		180 kW	215 kWh	0.8	430 kWh		1.8 MW AC / 4.3 MWh
	HYBO TL PCS 240		2		240 kW	430 kWh	0.5	860 kWh		2.4 MW AC / 8.6 MWh
	HYBO TL PCS 300		2		300 kW	430 kWh	0.5	860 kWh		3.0 MW AC / 8.6 MWh
HYBRID	HYBO TL HYBRID 120/120	Li-Kool 233	1	120 kW	120 kW	233 kWh	0.5	466 kWh	10	1.2MW PV/1.2 MW AC/4.3 MWh
	HYBO TL HYBRID 180/120		1	180 kW	120 kW	233kWh	0.8	466 kWh		1.8MW PV /1.2 MW AC/4.3 MWh
	HYBO TL HYBRID 240/180		2	240 kW	180 kW	466 kWh	0.5	932 kWh		2.4MW PV /1.8 MW AC/8.6 MWh
	HYBO TL HYBRID 240/240		2	240 kW	240 kW	466 kWh	0.5	932 kWh		2.4MW PV /2.4 MW AC/8.6 MWh



HYBO TL Hybrid Inverter + Multi cabinet Li-Kool system BESS

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LI-KOOL LIQUID COOLED

Liquid-cooled hybrid inverters offer efficient heat dissipation, extended component lifespan, higher power density, adaptability to various climates, and reduced maintenance, ensuring reliable, quiet, and energy-efficient performance

Efficient Power Integration

WECO

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