

Residential Energy Storage Battery

Turbo H5 Series

30kWh / 35kWh / 40kWh / 45kWh / 50kWh / 55kWh / 60kWh

Features

Stackable High Voltage Battery



Plug & play, no cable design between battery modules



Flexible capacity options up to 60kWh



Support max. 50A continuous charging / discharging current



IP65 outdoor design



Battery module level fire protection










Remote firmware upgrade and diagnosis via inverter



Model	TB-H5-30	TB-H5-35	TB-H5-40	TB-H5-45	TB-H5-50	TB-H5-55	TB-H5-60
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Electrical Parameters

System Demo							
Number of Modules	6	7	8	9	10	11	12
Nominal Energy ^[1] [kWh]	30.72	35.84	40.96	46.08	51.2	56.32	61.44
Nominal Power [kW]	15	17.5	20	22.5	25	27.5	30
Nominal Voltage [V]	307.2	358.4	409.6	460.8	512	563.2	614.4
Voltage Range [V]	259.2 ~ 345.6	302.4 ~ 403.2	345.6 ~ 460.8	388.8 ~ 518.4	432 ~ 576	475.2 ~ 633.6	518.4 ~ 691.2
Max. Continuous Charging / Discharging Current [A]	50 / 50						
Depth of Discharge	90%						
Cooling	Natural						

General Data

Battery Technology	LiFePO ₄						
Dimensions (W * H * D) [mm]	600 * 984 * 385	600 * 1123 * 385	600 * 1262 * 385	600 * 1401 * 385	600 * 1540 * 385	600 * 1679 * 385	600 * 1818 * 385
Weight [kg]	310	360	410	460	510	560	610
Ingress Protection	IP65 (Indoor or Outdoor)						
Installation Type	Floor Stand						
Operating Temperature Range ^[2] [°C]	-10 ~ +55						
Communication	CAN, RS485						
Cycle Life	6000 @80% DOD / 25°C / 0.2C / 60% EOL						
Warranty ^[3] [years]	10						
Operating Altitude [m]	≤ 2000						

Certification

Certificates	UN38.3, EN / IEC 62619, IEC 63056, EN 62477, EN 61000-6-1 / -3, Annex I of Regulation (EU) 2023/1542, Annex XVII of REACH Regulation
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[1] Nominal Energy: 100% DOD, 0.2C charge & discharge at +25°C (test conditions).

[2] Ambient temperature charging (0 ~ +53°C), discharging (-10 ~ +53°C).

[3] Conditions apply: refer to Renac Power Battery Warranty Policy.