

Residential ESS

Turbo H1 Series

3.74kWh / 7.48kWh / 11.23kWh / 14.97kWh / 18.7kWh
High Voltage Battery



Modular & 'Plug & Play' design



Safety upgrade with world class LiFePO₄ battery technology



Remote firmware upgrade and diagnosis via inverter



IP65 outdoor design



Support up to clusters parallel connection


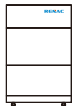


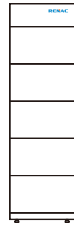


EU standard certified by TÜV Rheinland



Model	TB-H1-3.74	TB-H1-7.48	TB-H1-11.23	TB-H1-14.97	TB-H1-18.7
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Electrical Parameters

System Demo					
Number of Modules	1	2	3	4	5
Nominal Energy ^[1] [kWh]	3.74	7.48	11.23	14.97	18.7
Nominal Voltage [V]	96	192	288	384	480
Voltage Range [V]	81 ~ 108	162 ~ 216	243 ~ 324	324 ~ 432	405 ~ 540
Maximum Charge / Discharge Current ^[2] [A]	30 / 30				
Depth of Discharge	90%				
Cooling	Natural				

General Data

Battery Technology	LiFePO ₄				
Dimensions (W * H * D) [mm]	561 * 576 * 217	561 * 902 * 217	561 * 1228 * 217	561 * 1554 * 217	561 * 1880 * 217
Weight [kg]	49.5	86.8	124.1	161.4	198.7
Number of Battery Units	1	2	3	4	5
Ingress Protection	IP65 (Indoor or Outdoor)				
Installation Type	Floor Stand				
Operating Temperature Range ^[3] [°C]	-10 ~ +50				
Communication	CAN, RS485				
Cycle Life	6000 @80% DOD / 25°C / 0.2C / 60% EOL				
Warranty ^[4] [years]	10				
Operating Altitude [m]	≤ 2000				

Certification

Certificates UN38.3, EN / IEC 62619, IEC 62040-1, EN 62477-1, EN IEC 61000-6-1/ -3, Annex I of Regulation (EU) 2023/1542, Annex XVII of REACH Regulation

[1] Nominal Energy: 100% DOD, 0.2C charge & discharge at +25°C (test conditions).

[2] The recommended charging and discharging current is 25 / 30A.

[3] Ambient temperature charging (0 ~ +40°C), discharging (-10 ~ +50°C).

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