

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 LiFePO<sub>4</sub> battery technology



Remote firmware upgrade and online diagnosis



IP65 outdoor design



Support up to 5 battery sets parallel connection


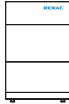
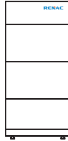
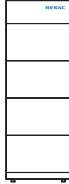
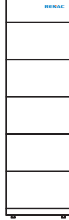


EU standard certified by TÜV Rheinland



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 <sup>[1]</sup> [kWh]	3.74	7.48	11.23	14.97	18.7
Usable Energy (90% DOD) [kWh]	3.36	6.73	10.1	13.47	16.83
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 <sup>[2]</sup> [A]	30 / 30				
Depth of Discharge	90%				
Cooling	Natural				

### General

Battery Technology	LiFePO <sub>4</sub>				
Size (Width * Height * Depth) [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
Enclosure	IP65 ( Indoor or Outdoor)				
Installation Type	Floor Stand				
Operating Temperature Range <sup>[3]</sup> [°C]	-10 ~ +50				
Communication	CAN, RS485				
Cycle Life	6000@ 80% DOD / 25°C / 0.2C / 60% EOL				
Warranty <sup>[4]</sup> [years]	10				
Operating Altitude [m]	≤ 2000				

### Certification

Certificates UN38.3, EN / IEC 62619, IEC 62040, EN 62477, EN 61000-6-1 / -3

[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.