TOMMATECH GmbH
GERMAN-based company

Hightech Power S Series

Hightech Power S 4kWh HV

Lithium Battery

Efficient. Strong. Safe.

- BMS — Active Smart Management System
- High Efficiency
- 6000 Cycle
- Plug & Play
- Lithium Battery
- IP65 Rated

AIO-S8 / AIO-S12 / AIO-S16 / AIO-S20 / AIO-S24

The TommaTech Hightech Power S 4kWh HV is a lithium battery module developed for high-voltage residential energy storage solutions. With superior safety standards, high efficiency and long-life cell technology, it is the ideal solution for storing solar energy, increasing self-consumption and establishing a reliable home storage system. Backed by TommaTech quality, this solution delivers maximum performance and reliability for sustainable energy management. This battery module is compatible with the Trio Hybrid S HV Series inverters.

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HIGHTECH POWER S SERIES HV BATTERY

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CE

	Hightech Power AIO-S8	Hightech Power AIO-S12	Hightech Power AIO-S16	Hightech Power AIO-S20	Hightech Power AIO-S24
BATTERY DATA					
Cell Chemistry	Lithium Battery				
Module Power (kWh)	4				
Nominal Module Voltage (V)	102.4				
Module Capacity (Ah)	40				
Number of Battery Modules in Series	2	3	4	5	6
System Nominal Voltage (V)	204.8	307.2	409.6	512	614.4
System Operating Voltage (V)	166.4 ~ 700.8				
System Energy (kWh)	8	12	16	20	24
Available System Energy (kWh)	7.2	10.8	14.4	18	21.6
Recommended Charge/Discharge Current (A)	20				
Nominal Charge/Discharge Current (A)	40				
Max. Discharge Current (A) (2 min, 25°C)	50				
Operating Temperature (°C)	Charge: -20 to 55 / Discharge: -20 to 55				
LCD Screen	SOC, Power, Total Voltage				
Communication Port	CAN2.0, RS485				
Humidity	%5 ~ %90				
Altitude	≤2000 m				
Protection Class	IP65				
Storage Temperature (°C)	0 ~ 35				
Dimensions (W x D x H, mm)	540x385x650	540x385x8	540x385x1090	540x385x1310	540x385x1530
Weight (kg)	97	136	175	214	253
Installation Type	Can be floor-mounted				
Recommended Discharge Depth	%90				
Lifespan	25±2°C, 0.5C / 0.5C, EOL %70 ≥6000				
Warranty	10 Yıl				
Certificates	CE / IEC62619 / VDE 2510-50 / UN38.3				

[1] DC usable energy, test conditions: 90% DOD, 0.3C charge and discharge, 25°C. System usable energy may vary depending on system configuration parameters.
[2] It is affected by current, temperature and SOC (state of charge).
[3] The warranty is valid for whichever comes first: the warranty period or the end of the product's lifecycle.

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