



Product Introduction

THALESOLAR-AVH which is All-in-One BESS, including single phase hybrid inverters and high voltage LFP battery, maximizes solar power usage.



Product Features

Easy Installation

Battery pre-installed
Plug and play design
Fast Installation

Warranty

10 years warranty

Expandable

Inverter 3.6Kw to 6KW
Battery up to 10KWH

Work Mode

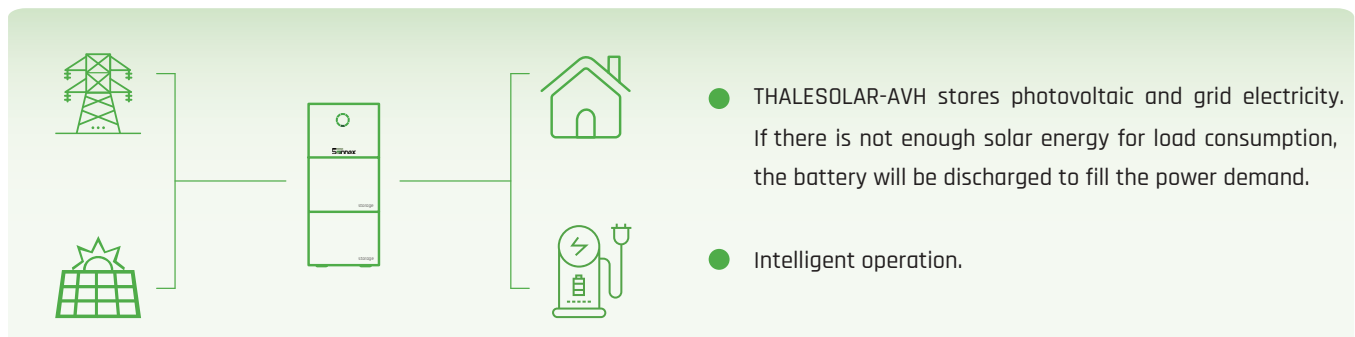
Self-Consumption/ Backup/
Load Shifting Modes

Safety Protection

Battery H₂ detection
System operation protection
Intelligent Power outage

Intelligent

Automatic system protection
Support VPP and IOT



THALESOLAR-AVH series

Technical parameters

Model	THS-ASPH3.6K-HB5.12	THS-ASPH4.6K-HB5.12	THS-ASPH5.0K-HB5.12	THS-ASPH6.0K-HB5.12			
	THS-ASPH3.6K-HB10.24	THS-ASPH4.6K-HB10.24	THS-ASPH5.0K-HB10.24	THS-ASPH6.0K-HB10.24			
PV Input							
Absolute max Voltage (D.C.V)			600				
MPPT Voltage Range (D.C.V)			100-550				
Max. DC Input Power (W)	4800	6200	6650	8000			
Start-up Voltage (D.C.V)			90				
Rated Operating Voltage (D.C.V)			360				
Max. Input Current (D.C.A)			12.5				
Max. inverter backfeed current to array (D.C.A)			0				
Isc PV (D.C.A)			18				
NO. of MPP Trackers			2				
NO. of Strings per MPP Tracker			1				
AC Input/Output							
Rated output Power (W)	3600	4500	5000	6000			
Rated Apparent Power to Grid (VA)	3600	4500	5000	6000			
Max. Apparent Power to Grid (VA)	3600	4500	5000	6000			
Max. Apparent Power from Grid (VA)	7200	9200	10000	12000			
Rated Voltage (A.C.V)			220/230/240				
Rated Frequency (HZ)			50/60				
Rated AC Current to Grid (A.C.A)	15.6	20	21.7	26.1			
Max. output current (A.C.A)	17.2	22	23.9	58.7			
Max. Current from Grid (A.C.A)	31.2	40	43.4	52.2			
Inrush current (A.C.A)		16 a.c.A (peak), 11.3 us (duration)					
Max. output fault current (A.C.A)		57 (peak), 40 (rms)					
AC output Maximum output overcurrent protection (A.C.A)		40					
AC input power factor			-0.8/+0.8				
AC output power factor			1 (-0.8/+0.8 adjustable)				
THDi			<3%				
EPS Output							
Max. Output Power (W)	3600	4500	5000	6000			
Rated Apparent Power (VA)	4320	5520	6000	7200			
Max. Apparent Power (VA)	4320	5520	6000	7200			
Rated Voltage (a.c.V)			230 (±2%)				
Normal Frequency (Hz)			50/60 (±0.2%)				
Max. Output Current (A.C.A)	18.8	24	26.1	31.3			
Inrush current (A.C.A)		16 (peak), 11.3 us (duration)					
Max. output fault current (A.C.A)		57 (peak), 40 (rms)					
EPS output Maximum output overcurrent protection (A.C.A)		40					
Switch time (MS)		<10					
THDv @Linear Load (%)		<2					
Power Factor			-0.8/+0.8				
Efficiency							
PV Max. Efficiency (%)			97.6				
PV Europe Efficiency (%)			97				
PV Max. MPPT Efficiency (%)			99.9				
Battery Charge by PV Max. Efficiency (%)			98				
Battery Discharge Efficiency (%)			96.7				
Protection							
Over/Under voltage protection			Yes				
DC isolation protection			Yes				
DC injection monitoring			Yes				
Residual current detection			Yes				
Anti-islanding protection			Yes				
Over load protection			Yes				
Battery input reverse polarity protection			Yes				
PV reverse polarity protection			Yes				
Surge protection			Yes				
Over heat protection			Yes				
Safety and Approvals							
Safety	IEC62040.1:2019 IEC 62109-1&-2, IEC62619 UN38.3 IEC60730-1, EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021						
Country	AS/NZS 4772.2:2020, VDE-AR-N 4105:2018-11, MEA:2015 PEA:2016, EN 50549-2:2019, EN 50549-1+Poland deviation, 699/1-6:2020, 698/1-6:2021 RD1699+UNE Distribution Code VDE0126+UTE C10/11: 2021						
General Data		THS-HB5.12	THS-HB10.24	Battery Model		SNX-HB5.12	SNX-HB10.24
Dimension (W/D/H)(MM)		550 × 233 × 1125mm	550 × 233 × 1750mm	Battery Capacity		LiFePO4 5.12kWh	LiFePO4 10.24kWh
Dimension of Packing (W/D/H)(MM)		655 × 302 × 1390mm	655 × 302 × 2085mm	Nominal Battery Voltage (D.C.V)		204.8	409.6
Net weight (KG)		68	115	Battery Voltage Range (D.C.V)		160/227.2	320/454.4
Gross weight (KG)		78	130	Max. Charge/Discharge Current (D.C.A)		25/25	25/25
Operation Temp (C)		-10/+55	-10/+55	Cycling times		6500	6500
Relative Humidity (%)		0...95	0...95	Depth of Discharge (%)		90	90
Altitude (M)		≤3000	≤3000	Text and images correspond to the current state of technology at the time of printing. Subject to modifications. All information is without guarantee in spite of careful editing-liability excluded.			
Ingress Protection		IP65	IP65				
Cooling		Natural	Natural				
Inverter Topology		Non-isolated	Non-isolated				
Over voltage category		III (AC), II (DC)	III (AC), II (DC)				
Protective class		Class I	Class I				
Active anti-islanding method		Frequency shift	Frequency shift				
Human Interface		LED/APP	LED/APP				
BMS Communication Interface		RS485/CAN	RS485/CAN				
Meter Communication Interface		RS485	RS485				
Noise Emission (DB)		<25	<25				
Standby Power Consumption (W)		<5	<5				

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