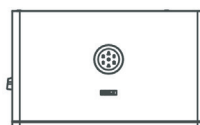


HS3-(5-10K)-3P-	5kWH	10kWH	15kWH	20kWH	25kWH	30kWH
-----------------	------	-------	-------	-------	-------	-------

MODEL battery module	B-HB-BAT-HS3-5.0-TV2-PRO					
MODEL combiner box	N.A.			B-HB-BAT-HS3-BMS		
MODEL base	B-HB-BAT-HS3-FM					

System basics

Rated output (W)	5.000 - 10.000					
Number of battery modules	1	2	3	4	5	6
Nominal energy output (kWh)	5.0	10.0	15.0	20.0	25.0	30.0
Ingress protection	IP65					
Operating temperature range	-30°C ~ +50°C					
Relative Humidity Range	0-100% (non-condensing)					
Weight (kg)	89.8	142.8	195.8	256.8	309.9	362.9
Dimensions (H*W*D) (mm)	940*695*170	1310*695*170	1680*695*170	1680*695*170 640*695*170	1680*695*170 1010*695*170	1680*695*170 1380*695*170



Inverter type	5.0kW FULL HYBRID 3PHASE + BACK-UP	10.0kW FULL HYBRID 3PHASE + BACK-UP
---------------	------------------------------------	-------------------------------------

Model inverter	B-HB-INV-HS3-3P-5.0	B-HB-INV-HS3-3P-10.0
----------------	---------------------	----------------------

DC Input

Max. PV Array Power (Wp) @STC	10000	15000
Max. DC Voltage (V)	1000	
MPPT DC Voltage Range (V)	180 ~ 900	
MPPT DC Voltage (V)	600	
Start Voltage (V)	180	
Max. DC Input current (A)	20/20	
Max. DC Short Circuit Current (A)	25/25	
No. of MPPT	2	

Inverter type
5.0kW FULL HYBRID 3PHASE + BACK-UP
10.0kW FULL HYBRID 3PHASE + BACK-UP
AC Output / Input (on-grid)

Rated AC Power (W)	5000	10000
Max. Apparent Power (VA)	5500	11000
Rated Output Current (A) @230 Vac	7.2	14.5
Max. Output Current (A)	8	15.9
Max. Input Current (A) @230Vac	29.0	
Rated AC voltage / range (V)	3L+N+PE, 220/380, 230/400, 240/415; 180~ 280/312 ~ 485	
Rated output frequency / range (Hz)	50,60/45 ~ 55,55 ~ 65	
Power Factor (cos ϕ)	0.8 leading ~ 0.8 lagging	
Total Harmonic Distortion (THDi)	<3%	

AC Output (Back-up)

Rated Output (W)	5000	10000
Peak Output Apparent power (VA)	500,60s	15000,60s
Rated AC Voltage / range (V)	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485	
Rated output Frequency / range (Hz)	50,60/45 ~ 55,55 ~ 65	
Switchover Time (Ms)	<20	
Output THDv (@ Linear Load)	<3%	

Efficiency

Max. Efficiency	98.0%
Euro Efficiency	97.6%

Protection

Battery Input Reverse Polarity Protection	Integrated
Over load Protection	Integrated
AC Short Circuit Current Protection	Integrated
AC Overcurrent protection	Integrated
AC Overvoltage protection	Integrated
DC Surge protection	Type II
AC Surge protection	Type II
Anti-islanding protection	Integrated
AFCI Protection	Integrated

Inverter type
5.0kW FULL HYBRID 3PHASE + BACK-UP
10.0kW FULL HYBRID 3PHASE + BACK-UP
Interface

PV Connection	MC4/H4
AC Connection	Plug-in connector
Battery Connection	Quick connector
Display	LED+APP
Communication Inverter	Wi-Fi / Ethernet / RS485
Communication Bliq Energy manager	4G / LTE (EMS3)

Battery Parameters

Battery Type	LiFePO4
Battery Voltage Range [V]	380 ~ 500
Max. Charging Current (A)	30
Max. Discharging Current (A)	15.8 30
Dept of discharge (%)	10 - 100 %
Heating System	Build-in (adjustable powerconsumption)
Scalability	B-HB-BAT-HS3-5.0-TV2-PRO (up to 8 battery modules)

General Parameters

Topology	Non-isolated
Cooling Method	Natural convention
Mounting	Ground Mounted
Standard warranty (year)	10 years
Max. Operating Altitude (m)	3000
Noise (dBA)	<35
Dimensions inverter [H*W*D] [mm]	450*695*170
Weight inverter (kg)	34.0
Dimensions battery (H*W*D) (mm)	370*695*170
Weight battery module (kg)	53.0
Dimensions combiner box (H*W*D) (mm)	150*695*170
Weight combiner box (kg)	5.3
Dimensions base (H*W*D) (mm)	(75-120)*695*170
Weight base (kg)	2.8
Power meter compatibility	DDSU666 / DTSU666

Standard

EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4015, VDE 0126-1-1

System configurations

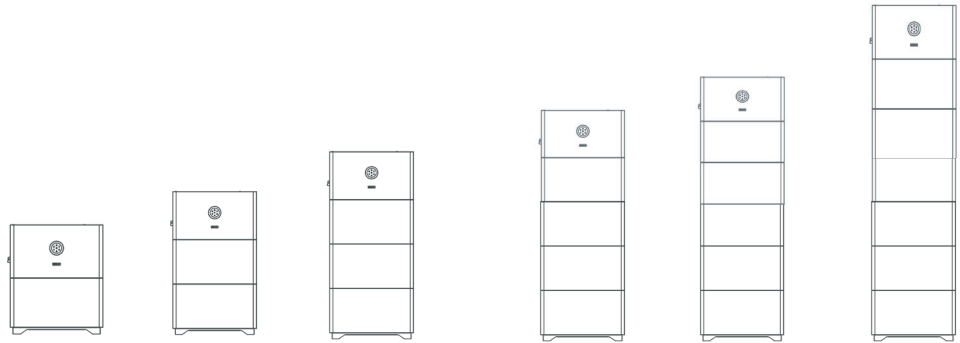


Installation considerations

The Bliq battery system can be stacked up to 40 kWh. Keep in mind that higher capacity means increased height and weight. Each battery module weighs 53 kg.

Planning a second stack?

Please note that an **additional combiner box** is always required.



HS3-(5-10K)-3P-	5kWH	10kWH	15kWH	20kWH	25kWH	30kWH
-----------------	------	-------	-------	-------	-------	-------

Why Bliq HS3

Ultra slim design

Only 17 cm deep, fits easily in modern utility spaces.

Dynamic phase control

Adjusts phase output dynamically to compensate for uneven loads.

Scalable up to 40kWh

Stack battery modules to match today's needs, and tomorrow.

Built for larger PV Systems

20A PV input and DC/AC ratio up to 2.0 for flexible system design.

Fast, clean installation

Click-in battery modules with minimal cabling and almost no screws.

Smart, per-battery, power control

Each battery module is individually managed via DC-DC boost technology.

Integrated by design

AC connector, connectivity module and MPPTs are fully built into the housing.

Safety included

Integrated heating and fire suppression per battery module.

