

**HS3-(3.68-5K)-1P-**      **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)	3.680- 5.000					
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)	890*695*170	1260*695*170	1630*695*170	1630*695*170 640*695*170	1630*695*170 1010*695*170	1630*695*170 1380*695*170



**Inverter type**      **3.68kW FULL HYBRID 1PHASE + BACK-UP**      |      **5.0kW FULL HYBRID 1PHASE + BACK-UP**

Model inverter	B-HB-INV-HS3-1P-3.6		B-HB-INV-HS3-1P-5.0
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### DC Input

Max. PV Array Power (Wp) @STC	7200		10000
Max. DC Voltage (V)	600		
MPPT DC Voltage Range (V)	90~550		
MPPT DC Voltage (V)	360		
Start Voltage (V)	100		
Max. DC Input current (A)	20/20		
Max. DC Short Circuit Current (A)	25/25		
No. of MPPT	2		

**Inverter type**
**3.68kW FULL HYBRID 1PHASE + BACK-UP**
**5.0kW FULL HYBRID 1PHASE + BACK-UP**
**AC Output / Input (on-grid)**

Rated AC Power (W)	3600	5000
Max. Apparent Power (VA)	3600	5500
Rated Output Current (A) @230 Vac	15.7	21.7
Max. Output Current (A)	16.4	22.7
Max. Input Current (A) @230Vac	54.5	
Rated AC voltage / range (V)	L+N+PE, 220, 230, 240/180 ~ 280	
Rated output frequency / range (Hz)	50, 60/45 ~ 55,55 ~ 65	
Power Factor (cos $\phi$ )	0.8 leading ~ 0.8 lagging	
Total Harmonic Distortion (THDi)	<3%	

**AC Output (Back-up)**

Rated Output (W)	3680	5000
Peak Output Apparent power (VA)	4416,60s	6000,60s
Rated AC Voltage / range (V)	L+N+PE, 220, 230, 240/180 ~ 280	
Rated output Frequency / range (Hz)	50,60/45 ~ 55,55 ~ 65	
Switchover Time (Ms)	<20	
Output THDv (@ Linear Load)	<3%	

**Efficiency**

Max. Efficiency	97.6%
Euro Efficiency	97.2%

**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

<b>Inverter type</b>	<b>3.68kW FULL HYBRID 1PHASE + BACK-UP</b>	<b>5.0kW FULL HYBRID 1PHASE + BACK-UP</b>
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### 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)	15.8
Max. Discharging Current (A)	10.0   15.2
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)	400*695*170
Weight inverter (kg)	27.5
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
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# System configurations

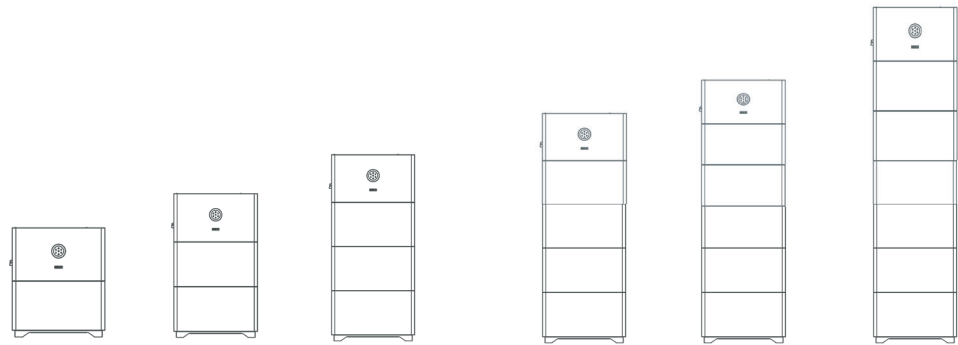
**Not sure?**  
 We'll help  
 support@bliq.energy

## 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.



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## 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.

