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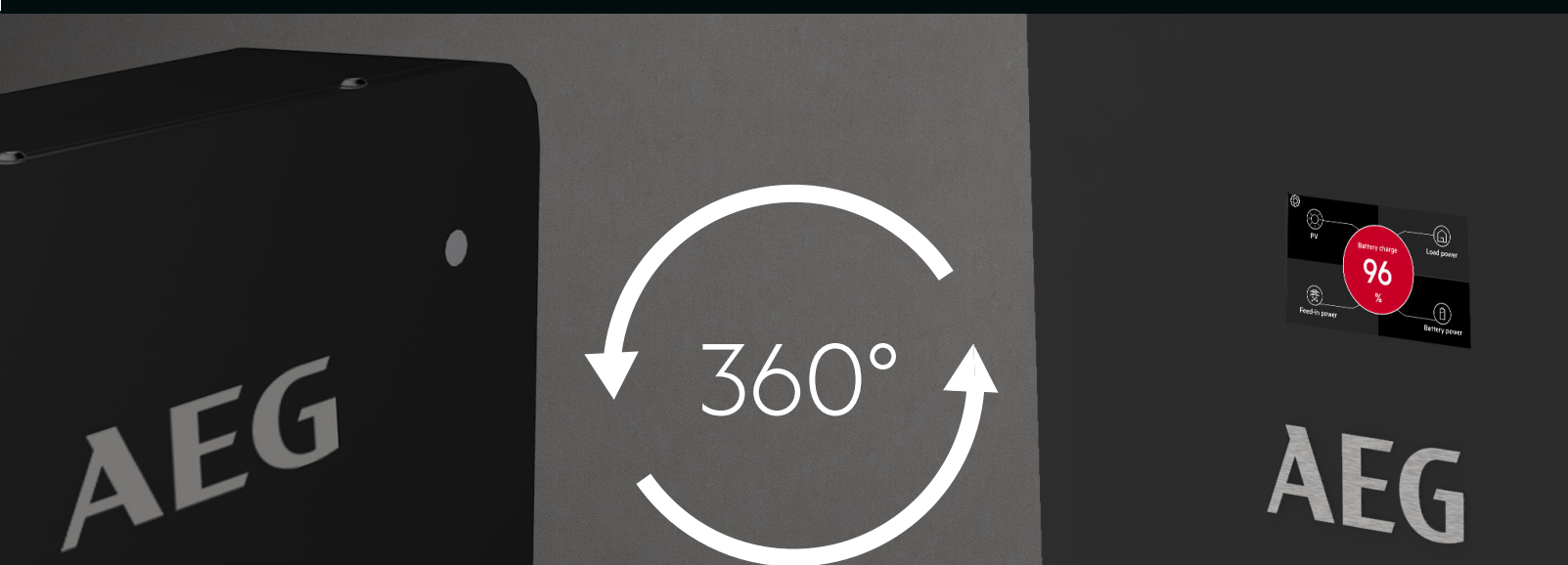
AEG ENERGY STORAGE



360° ENERGY SOLUTIONS FOR YOUR HOME

GENERA 2022

AEG ENERGY STORAGE SOLUTIONS

AS-BSL1 / LOW-VOLTAGE ENERGY STORAGE SYSTEM (4 kWh / 8 kWh / 12kWh)

AS-BBH1/HV / HIGH-VOLTAGE BATTERY (10 kWh / 15 kWh)

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AEG ENERGY STORAGE SYSTEMS

AS-BSL1 / LOW-VOLTAGE ENERGY STORAGE SYSTEM

Characteristics

Low-voltage energy storage system
with integrated hybrid inverter for indoor use
Capacity: 4 kWh / 8 kWh / 12 kWh

Product Name Code (PNC)

AS-BSL1-4000/8000/12000

Extra peace of mind

Product and performance warranty:
6000 cycles

Advantages

Plug-and-play system
All-in-one solution (integration of inverter and storage)
Sleek design

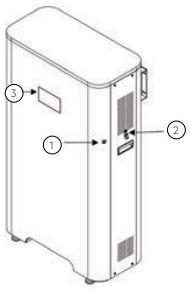
AS-BSL1 / LOW-VOLTAGE ENERGY STORAGE SYSTEM

PRODUCT SERIES & NAMECODE (PNC)
AEG HOME ENERGY STORAGE
AS-BSL1-4000/ AS-BSL1-8000 / AS-BSL1-12000, black / white

WARRANTY[1]		
Product warranty	years	5
Performance warranty	years	10

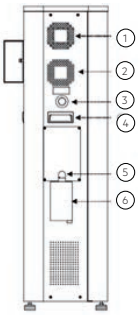
SYSTEM TECHNICAL DATA		**AS-BSL1-4000**	**AS-BSL1-8000**	**AS-BSL1-12000**
PV INPUT				
Max. recommended DC power	[W]	3600	6500	6500
Max. DC voltage	[V]	500	500	500
Nominal DC operating voltage	[V]	360	360	360
Start-up voltage	[V]	150	150	150
MPPT voltage range	[V]	125-425	125-425	125-425
VDC range at full power	[VDC]	300-425	250-425	250-425
Max.input current	[A]	11	11/11	11/11
Max.short current	[A]	16	16/16	16/16
Number of MPPT trackers		1	2	2
Strings per MPPT tracker		1	1/1	1/1
AC INPUT & AC OUTPUT				
Normal Voltage	[VAC]	230, Single phase (L/N/PE)		
Frequency	[Hz]	50	50	50
Max.AC output current	[A]	18	25	25
Max.AC input current	[A]	18	25	25
Max.continuous power	[kW]	3.6	5	5
Apparent power	[kVA]	3.6	5	5
Power factor range		-0.8~+0.8		
OFF-GRID AC OUTPUT				
Normal voltage	[VAC]	230, Single phase (L/N/PE)		
Frequency	[Hz]	50	50	50
Max. AC output current	[A]	18	25	25
Max. continuous power	[kW]	3.6	5	5
Power factor range		-0.8~+0.8		
Peak power		1.5 times of Max. continuous power (10S)		
STORAGE DATA				
Battery type		Lithium (LFP)		
Module number		1	2	3
Nominal storage capacity	[kWh]	3.84	7.68	11.52
Usable storage capacity	[kWh]	3.07	6.14	9.22
Battery capacity	[Ah]	75	150	225
Normal voltage	[V]	51.2	51.2	51.2
Voltage range	[V]	42-58	42-58	42-58
Max. charge current	[A]	50	100	100
Max. discharge current	[A]	50	100	100
DOD	[%]	80	80	80
Cycle life		6000	6000	6000

TECHNICAL DRAWINGS



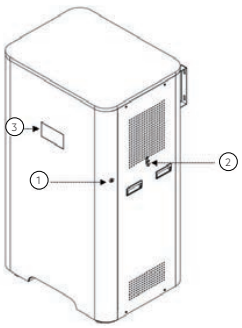
AS-BSL1-4000

1-System door lock
2-Door key
3-LCD screen



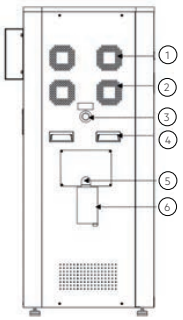
AS-BSL1-4000

1-Fan outlet
2-Fan outlet
3-Emergency stop
4-Handle
5-Entry port
6-Label



AS-BSL1-8000 / AS-BSL1-12000

1-System door lock
2-Door key
3-LCD screen



AS-BSL1-8000 / AS-BSL1-12000

1-Fan outlet
2-Fan outlet
3-Emergency stop
4-Handle
5-Entry port
6-Label

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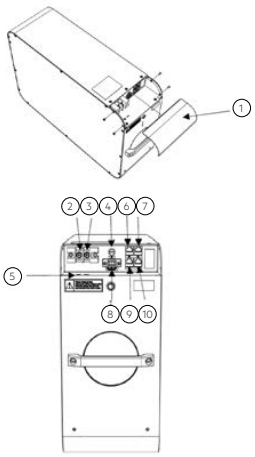
SYSTEM TECHNICAL DATA		AS-BSL1-4000	AS-BSL1-8000	AS-BSL1-12000
REGULAR PARAMETERS				
Protective class		Class I		
Overvoltage category		OVC II(PV) , OVCIII (AC main Grid)		
Dimension W*D*H	[mm]	700*340*1230	750*565*1335	750*565*1335
Weight	[kg]	145	240	300
Display		7" graphic LCD		
Communication		WIFI,CAN		
Operating temperature range	[°C]	-10~+40 (>45° derating)		
Storage stability range	[°C]	-20~+60		
Relative humidity	[%]	0~95		
Altitude	[m]	<2000		
Cooling methods		Forced airflow		
Ingress protection		IP20		
Condition		Indoor conditioned		

SYSTEM CERTIFICATIONS		
Certificates		IEC/EN 62109-2:2011; IEC/EN 62109-1:2010; Low Voltage Directive 2014/35/EU; EN 61000-6-1: 2007; EN 61000-6-3: 2007/+A1: 2011; EMC Directive 2014/30/EU; CE-LVD EN 62477-1: 2012+ALL: 2014; RoHS Directive 2011/65/EU and (EU)2015/863; EU REACH Regulation No 1907/2006 Article 33(1)

OPERATING DATA		AS-BSL1-4000	AS-BSL1-8000	AS-BSL1-12000
BMS (BATTERY MANAGEMENT SYSTEM)				
Power consumption (work)	[W]	<3		
Power consumption (sleep)	[mW]	<100		
Communication		CAN		
Monitoring parameters		System voltage, system current, cell voltage, cell temperature		
Protection		Overvoltage, undervoltage, overcurrent, overtemperature, undertemperature		
OPERATING CONDITIONS				
Installation location		Indoor		
Operating temperature	[°C]	-10~45		
Operating temperature (Re-commended)	[°C]	15~30		
Storage temperature	[°C]	-20~60		
Humidity	[%]	5~95		
Altitude	[m]	max. 2000		
Cooling strategy		Natural convection		
RELIABILITY AND CERTIFICATION				
Certificates		Cell: UL1642; Battery module: IEC62619 / UL1973		
Transportation		UN38.3		
Ingress rating		IP20		

BATTERY MODULE TECHNICAL DATA	AS-BBL1-4000
PHYSICAL CHARACTERISTICS	
Width [mm]	678
Depth [mm]	205
Height [mm]	436
Weight [kg]	60
ELECTRICAL CHARACTERISTICS	
Battery type	LFP
Total energy capacity [kWh]	3.84
Usable energy capacity [kWh]	3.07
Battery capacity [Ah]	75
Voltage range / usable v.r. [V]	48~57.6
Nominal voltage [V]	51.2
Charge current (recommended) [A]	37.5
Disharge current (recommended) [A]	37.5
Max. continuous charge current [A]	50
Max. continuous discharge current [A]	50
DOD [%]	80
Internal resistance [mΩ]	≤60
Cycle life at 25°C[2]	≥6000
Battery pack round-trip efficiency [%]	>95
DC disconnect	Contactor

TECHNICAL DRAWINGS



AS-BBL1-4000

1-Product label
2-Handle
3-Warning label
4-Push button of BMS power supply
5-Serial number
6-Battery capacity and warning indicator light

NOTES

1- For the full Warranty Terms please visit www.aeg-industrialsolar.de

2- Under standard charge conditions, charge 0.2°C, discharge 0.2°C

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Code: AS-BSL1-4000/8000/12000 version 202109.V1.EN-EU

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AEG HIGH VOLTAGE BATTERY

AS-BBH1/HV / HIGH VOLTAGE BATTERY

Characteristics

High voltage battery, nominal capacity: 10 kWh / 15 kWh
Modular system for energy storage
Designed for connection with AEG hybrid inverters

Product Name Code (PNC)

AS-BBH1-10000/15000/HV

Extra peace of mind

10 years product warranty
(6000 cycles)

Advantages

Maximum planning flexibility
thanks to different available capacities and modularity
(parallel connection capability up to 4 batteries)

AS-BBH1/HV / HIGH VOLTAGE BATTERY

PRODUCT SERIES
AEG HIGH VOLTAGE BATTERY

PRODUCT NAMECODE (PNC)
AS-BBH1-10000/HV, AS-BBH1-15000/HV

ELECTRICAL CHARACTERISTICS			
Model: AS-BBH1-xxx/HV		10000	15000
Battery type	Lithium LFP		
Nominal capacity	[kWh]	10	15
Usable capacity	[kWh]	9	13.5
Nominal voltage	[V]	230.4	307.2
Voltage range (usable)	[V]	216-255.6	288-340.8
Charge voltage	[V]	255.6	340.8
Discharge voltage	[V]	201.6	268.8
Charge / Discharge current (nominal)	[A]	25/25	25/25
Charge / Discharge current (max)	[A]	40/40	40/40
Depth of Discharge (DOD)	[%]	90	90

PHYSICAL CHARACTERISTICS			
Model: AS-BBH1-xxx/HV		10000	15000
Height	[mm]	971	1205 (±3)
Width	[mm]	654	654 (±2)
Depth	[mm]	227	227 (±2)
Weight	[kg]	134	178
Installation	floor-stand		
Case	carbon or white color		

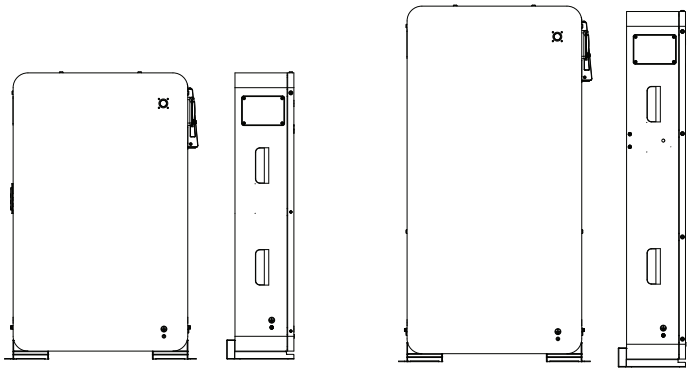
WARRANTY[1]	
Product and performance	10-year standard warranty or 6000 cycles (whichever comes first)

OPERATING CONDITIONS		
Operating temperature	[°C]	-10 to 50
Operating temperature (recommended)	[°C]	15 to 30
Storage temperature	[°C]	-30 to 60
Humidity conditions	[%]	5 to 95
Altitude	[m]	max. 2000
Cooling method	Natural convection	

RELIABILITY AND CERTIFICATION	
Certification	Cell: UL1642
	Battery module: IEC 62619 & UL1973
Hazardous materials classification	Class 9
Transportation	UN 38.3
Ingress protection rating	IP54
System configuration	1 to 4 parallel

PRODUCT APPEARANCE

TECHNICAL DRAWINGS



AS-BBH1-10000/HV - front and side view

AS-BBH1-15000/HV - front and side view

NOTES

1- For the full Warranty Terms please visit www.aeg-industrialsolar.de

Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ")

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