



Product Service

CERTIFICATE

No. Z2 123859 0003 Rev. 00

Holder of Certificate: Energy Pro Hungary Kft.

Koérberki út 36.
1112 Budapest
HUNGARY

Certification Mark:



Product: Converter
(Energy Storage Inverter)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290213079402D

Valid until: 2027-09-29

Date, 2023-12-20

(Billy Qiu)

CERTIFICATE

No. Z2 123859 0003 Rev. 00

Model(s): **HBESS-3.6, HBESS-5, HBESS-6**
HBESS1-3.6, HBESS1-5, HBESS1-6

Parameters:

Model	HBESS-6	HBESS-5	HBESS-3.6
PV terminal			
Vmax. PV	580 Vd.c.	580 Vd.c.	580 Vd.c.
MPPT Voltage Range	100 Vd.c.~ 550 Vd.c.	100 Vd.c.~ 550 Vd.c.	100 Vd.c.~ 550 Vd.c.
MPPT Voltage Range (full load)	300 Vd.c.~ 450 Vd.c.	300 Vd.c.~ 450 Vd.c.	300 Vd.c.~ 450 Vd.c.
Max. continuous PV input current	2*15.0 Ad.c.	2*15.0 Ad.c.	2*15.0 Ad.c.
Isc PV	2*18.75 Ad.c.	2*18.75 Ad.c.	2*18.75 Ad.c.
Max. continuous PV input power	9000 W	9000 W	9000 W
Battery terminal			
Voltage range	85 ~ 450 Vd.c.	85 ~ 450 Vd.c.	85 ~ 450 Vd.c.
Rated voltage	256 Vd.c	256 Vd.c	256 Vd.c
Maximum charge/discharge current	32 Ad.c.	32 Ad.c.	32 Ad.c.
Maximum charge/discharge power	6000 W	5000 W	3600 W
Grid terminal parameter			
Rated voltage	230 Va.c.		
Rated frequency	50/60 Hz		
Rated current output to Grid	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Maximum current output to Grid	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Rated active power output to Grid	6000 W	5000 W	3600 W
Maximum/rated apparent power output to Grid	6000 VA	5000 VA	3600 VA
Maximum current from Grid	52.2 Aa.c.	43.4 Aa.c.	31.2 Aa.c.
Maximum apparent power from Grid	12000 VA	10000 VA	7200 VA
Power factor (Cos phi), adjustable	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		
Back up load terminal parameter			
Rated voltage	230 Va.c.		
Rated frequency	50/60 Hz		
Rated output Current	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Maximum continuous output current	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.

CERTIFICATE

No. Z2 123859 0003 Rev. 00

Maximum/rated output apparent power	6000 VA	5000 VA	3600 VA
General parameter			
Temperature	-25°C to +60°C, derating above 45 °C*		
Protective class	Class I		
Overvoltage Category	II(DC side), III(AC side)		
Ingress protection	IP65		
Altitude	<3000m		
Service humidity range	4%~100%		
Remark: * HBESS-6 derating above 40 °C.			

Model	HBESS1-6	HBESS1-5	HBESS1-3.6
PV terminal			
Vmax. PV	580 Vd.c.	580 Vd.c.	580 Vd.c.
MPPT Voltage Range	100 Vd.c.~ 550 Vd.c.	100 Vd.c.~ 550 Vd.c.	100 Vd.c.~ 550 Vd.c.
MPPT Voltage Range (full load)	300 Vd.c.~ 450 Vd.c.	300 Vd.c.~ 450 Vd.c.	300 Vd.c.~ 450 Vd.c.
Max. continuous PV input current	2*15.0 Ad.c.	2*15.0 Ad.c.	2*15.0 Ad.c.
Isc PV	2*18.75 Ad.c.	2*18.75 Ad.c.	2*18.75 Ad.c.
Max. continuous PV input power	9000 W	9000 W	9000 W
Battery terminal			
Voltage range	360V~500 Vd.c.	360V~500 Vd.c.	360V~500 Vd.c.
Rated voltage	400 Vd.c.	400 Vd.c.	400 Vd.c.
Maximum charge/discharge current	25 Ad.c.	25 Ad.c.	25 Ad.c.
Maximum charge/discharge power	6000 W	5000 W	3600 W
Grid terminal parameter			
Rated voltage	230 Va.c.		
Rated frequency	50/60 Hz		
Rated current output to Grid	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Maximum current output to Grid	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Rated active power output to Grid	6000 W	5000 W	3600 W
Maximum apparent power output to Grid	6000 VA	5000 VA	3600 VA
Maximum current from Grid	52.2 Aa.c.	43.4 Aa.c.	31.2 Aa.c.



CERTIFICATE

No. Z2 123859 0003 Rev. 00

Maximum apparent power from Grid	12000 VA	10000 VA	7200 VA
Power factor (Cos phi), adjustable	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		
Back up load terminal parameter			
Rated voltage	230 Va.c.		
Rated frequency	50/60 Hz		
Rated output Current	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Maximum continuous output current	26.1 Aa.c.	21.7 Aa.c.	15.6 Aa.c.
Maximum continuous output power	6000 VA	5000 VA	3600 VA
General parameter			
Temperature	-25°C to +60°C, derating above 45 °C*		
Protective class	Class I		
Overvoltage Category	II(DC side), III(AC side)		
Ingress protection	IP65		
Altitude	<3000m		
Service humidity range	4%~100%		
Remark: * HBESS1-6 derating above 40 °C.			

**Tested
according to:**

IEC 62109-1:2010
EN 62109-1:2010
IEC 62109-2:2011
EN 62109-2:2011