ATTESTATION ◆ ATTESTATO ◆ ATESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Product Service

Attestation of Conformity

No. N8A 123859 0004 Rev. 00

Holder of Attestation: **Energy Pro Hungary Kft.**
Koérberki út 36.
1112 Budapest
HUNGARY

Product: **Converter**
(Energy Storage Inverter)

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290213079402D

Date, 2023-12-20

(Billy Qiu)

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking.
The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

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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			

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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/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			

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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.
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:

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

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