



Product Service

# CERTIFICATE

No. Z2 123859 0005 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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290223110901D

**Valid until:** 2027-09-28

**Date,** 2023-12-20

( Billy Qiu )

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**Model(s): HBESS3-5, HBESS3-6, HBESS3-8, HBESS3-10, HBESS3-12**

## Parameters:

Model	HBESS3-5	HBESS3-6	HBESS3-8	HBESS3-10	HBESS3-12
PV terminal parameters					
Vmax. PV	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
MPPT Voltage Range	150 Vd.c.~ 900 Vd.c.	150 Vd.c.~ 900 Vd.c.	150 Vd.c.~ 900 Vd.c.	150 Vd.c.~ 900 Vd.c.	150 Vd.c.~ 900 Vd.c.
MPPT Voltage Range (full load)	450 Vd.c.~ 750Vd.c.	450 Vd.c.~ 750Vd.c.	450 Vd.c.~ 750Vd.c.	450 Vd.c.~ 750Vd.c.	450 Vd.c.~ 750Vd.c.
Max. continuous PV input current	16 Ad.c./ 16 Ad.c.	16 Ad.c./ 16 Ad.c.	27 Ad.c./ 16 Ad.c.	27 Ad.c./ 16 Ad.c.	27 Ad.c./ 16 Ad.c.
Isc PV	20 Ad.c./ 20 Ad.c.	20 Ad.c./ 20 Ad.c.	34 Ad.c./ 20 Ad.c.	34 Ad.c./ 20 Ad.c.	34 Ad.c./ 20 Ad.c.
Max. continuous PV input power	23000 W	23000 W	29000 W	29000 W	29000 W
Battery terminal parameter					
Battery type	LFP	LFP	LFP	LFP	LFP
Voltage range	650 Vd.c.~ 900 Vd.c.	650 Vd.c.~ 900 Vd.c.	650 Vd.c.~ 900 Vd.c.	650 Vd.c.~ 900 Vd.c.	650 Vd.c.~ 900 Vd.c.
Rated voltage	720 Vd.c.	720 Vd.c.	720 Vd.c.	720 Vd.c.	720 Vd.c.
Maximum charge/discharge current	24.6 Ad.c.*/ 8.5 Ad.c.	24.6 Ad.c.*/ 10.2 Ad.c.	24.6 Ad.c.*/ 13.5 Ad.c.	24.6 Ad.c.*/ 16.9 Ad.c.	24.6 Ad.c.*/ 18.5 Ad.c.
Maximum charge current from grid to battery	8.5 Ad.c.	10.2 Ad.c.	13.5 Ad.c.	16.9 Ad.c.	18.5 Ad.c.
Maximum charge/discharge power	16000 W*/ 5500 W	16000 W*/ 6600 W	16000 W*/ 8800 W	16000 W*/ 11000 W	16000 W*/ 12000 W
Maximum charge power from grid to battery	5500 W	6600 W	8800 W	11000 W	12000 W
Grid terminal parameter					
Rated voltage	230/400 Va.c., 3W+N+PE				
Rated frequency	50 Hz				
Rated current output to Grid	7.2 Aa.c.	8.7 Aa.c.	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Maximum continuous current output to Grid	7.9 Aa.c.	9.6 Aa.c.	12.8 Aa.c.	16.0 Aa.c.	17.4 Aa.c.
Rated active power output to Grid	5000 W	6000 W	8000 W	10000 W	12000 W

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Maximum apparent power output to Grid	5500 VA	6600 VA	8800 VA	11000 VA	12000 VA
Maximum continuous current from Grid	14.4 Aa.c.	17.4 Aa.c.	23.2 Aa.c.	26.0 Aa.c.	26.0 Aa.c.
Maximum apparent power from Grid	10000 VA	12000 VA	16000 VA	18000 VA	18000 VA
Power factor (Cos phi), adjustable	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				
Backup load terminal parameter					
Rated voltage	230/400 Va.c., 3W+N+PE				
Rated frequency	50 Hz				
Rated output Current	7.2 Aa.c.	8.7 Aa.c.	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Maximum continuous output current	7.9 Aa.c.	9.6 Aa.c.	12.7 Aa.c.	15.9 Aa.c.	17.4 Aa.c.
Maximum continuous output power	5500 VA	6600 VA	8800 VA	11000 VA	12000 VA
Power factor (Cos phi), adjustable	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				
General					
Operating temperature range	-20 °C ~ 50 °C (Auto derating above 35 °C)				
Protection class	I				
Ingress protection	IP65				
Operating altitude range	2000m				
Remark: *: The maximum charge current (24.6 Ad.c.) and power (16000 W) only in PV+Grid supply to battery.					

**Tested according to:**

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