



Product Service

CERTIFICATE

No. B 115323 0001 Rev. 00

Holder of Certificate: M-TEC Energy System GmbH

Aumühlweg 20
4812 Pinsdorf
AUSTRIA

Certification Mark:



Product:

**Converter
HYBRID 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.: 701262117801-00

Valid until: 2025-12-30

Date, 2021-12-21

(Zhengdong Ma)

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Model(s): EnergyButler 4KW-3P, EnergyButler 5KW-3P, EnergyButler 6KW-3P, EnergyButler 8KW-3P, EnergyButler 10KW-3P, EnergyButler 12KW-3P

Parameters:

Models	EnergyButler 4KW-3P	EnergyButler 5KW-3P	EnergyButler 6KW-3P
PV Port			
D.C. Max. Input Voltage:	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
D.C. MPPT Voltage Range:	150-850 Vd.c.	150-850 Vd.c.	200-850 Vd.c.
D.C. Max. Input Current:	13/13 Ad.c.	13/13 Ad.c.	13/13 Ad.c.
Isc PV:	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.
Battery Port			
Battery Voltage Range:	180-750 Vd.c.	180-750 Vd.c.	180-750 Vd.c.
Battery Max. Charge/Discharge Current:	25 Ad.c.	25 Ad.c.	25 Ad.c.
Battery Type:	Li-Ion	Li-Ion	Li-Ion
AC Input Port			
AC Input Nominal Voltage:	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V
AC Input Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
AC Input Max. Current:	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
AC Input Max. Apparent Power:	8000 VA	10000 VA	12000 VA
AC Output Port			
A.C. Output Nominal Voltage:	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V
A.C. Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
A.C. Output Rated Power:	4000 W	5000 W	6000 W
A.C. Output Rated Apparent Power:	4000 VA	5000 VA	6000 VA
A.C. Output Max. Apparent Power:	4400 VA	5500 VA	6600 VA
A.C. Output Rated Current:	5.8 Aa.c.	7.3 Aa.c.	8.7 Aa.c.
A.C. Output Max. Current:	6.7 Aa.c.	8.3 Aa.c.	10 Aa.c.
Power Factor:	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging

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Models	EnergyButler 4KW-3P	EnergyButler 5KW-3P	EnergyButler 6KW-3P
Back-up Output Port			
Back-up Output Nominal Voltage:	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V
Back-up Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
Back-up Output Rated Power:	4000 W	5000 W	6000 W
Back-up Output Rated Apparent Power:	4000 VA	5000 VA	6000 VA
Back-up Output Max. Apparent Power:	4400 VA	5500 VA	6600 VA
General Data			
Operating Attitude:	3000 m		
Protection Class:	I		
Enclosure:	IP65		
Overvoltage Category:	II(DC), III(AC)		
Operating Temperature Range:	-30°C ... +60°C		
Inverter Topology:	Non-isolated		

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Models	EnergyButler 8KW-3P	EnergyButler 10KW-3P	EnergyButler 12KW-3P
PV Port			
D.C. Max. Input Voltage:	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
D.C. MPPT Voltage Range:	200-850 Vd.c.	200-850 Vd.c.	200-850 Vd.c.
D.C. Max. Input Current:	13/13 Ad.c.	13/13 Ad.c.	13/13 Ad.c.
Isc PV:	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.
Battery Port			
Battery Voltage Range:	180-750 Vd.c.	180-750 Vd.c.	180-750 Vd.c.
Battery Max. Charge/Discharge Current:	25 Ad.c.	25 Ad.c.	25 Ad.c.
Battery Type:	Li-Ion	Li-Ion	Li-Ion
AC Input Port			
AC Input Nominal Voltage:	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V
AC Input Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
AC Input Max. Current:	23.2 Aa.c.	23.9 Aa.c.	23.9 Aa.c.
AC Input Max. Apparent Power:	16000 VA	16500 VA	16500 VA
AC Output Port			
A.C. Output Nominal Voltage:	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V
A.C. Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
A.C. Output Rated Power:	8000 W	10000 W	12000 W
A.C. Output Rated Apparent Power:	8000 VA	10000 VA	12000 VA
A.C. Output Max. Apparent Power:	8800 VA	11000 VA	13200 VA
A.C. Output Rated Current:	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
A.C. Output Max. Current:	13.3 Aa.c.	16.5 Aa.c.	20 Aa.c.
Power Factor:	0.8 leading... 0.8 lagging	0.8 leading... 0.8 lagging	0.8 leading... 0.8 lagging

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Models	EnergyButler 8KW-3P	EnergyButler 10KW-3P	EnergyButler 12KW-3P
Back-up Output Port			
Back-up Output Nominal Voltage:	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V	3/N/PE~ 380/400 V
Back-up Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
Back-up Output Rated Power:	8000 W	10000 W	12000 W
Back-up Output Rated Apparent Power:	8000 VA	10000 VA	12000 VA
Back-up Output Max. Apparent Power:	8800 VA	11000 VA	13200 VA
General Data			
Operating Attitude:	3000 m		
Protection Class:	I		
Enclosure:	IP65		
Overvoltage Category:	II(DC), III(AC)		
Operating Temperature Range:	-30°C ... +60°C		
Inverter Topology:	Non-isolated		

Tested according to: EN 62109-1:2010
IEC 62109-2(ed.1)
EN 62109-2:2011
IEC 62109-1(ed.1)