

# CERTIFICATE

of conformity with the following European Directives

**Low Voltage Directive 2014/35/EU**

This certifies that below described products of the applicant:

**Shenzhen Megarevo Technology Co., Ltd.**

4th Floor, Block 2, INVT Guangming Technology Building  
Shutianpu Community, Matian Neighborhood, Guangming New  
District, Shenzhen, 518106, P.R. China

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product(s):** Hybrid Inverter

**Model type(s):** MPS0030/MPS0050/MPS0100/MPS0150/MPS0250/MPS0500

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification program: P31-VA-01 Rev. 02 / 04.20

Certification fundamental(s): EN 62109-1:2010; EN 62109-2:2011; EN 62477-1:2012+A1:2017

Registered no.: 44 799 22 406749 - 005

Report no.: 492011905.001  
492011906.001

File no.: PVP11123/20E-01  
PVP11123/20E-02



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Certification Body  
Energy Storage System

Essen, 2022-01-20

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.



The CE marking may be affixed on the product if all relevant and effective Directives are complied with.



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to Certificate registration no. 44 799 22 406749 - 005

## Description of product(s):

Model type ..... :		MPS0030	
General information			
Type of inverter ..... :	isolated	Separated by ..... :	Transformer
Safety class..... :	Class I	IP grade ..... :	IP20
Over-voltage category..... :	DC Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Operating temperature..... :	-30°C to +60°C (>55°C power derating)	Altitude ..... :	3000m
Max. weight..... :	650kg	Dimension (W x D x H) ..... :	800mm*800mm*1900mm
Firmware of control board ..... :	V9	Firmware of LCD ..... :	V9
DC input			
Cut off voltage ..... :	850d.c.V	Battery type ..... :	Lead acid and lithium battery
Battery voltage range..... :	250-850d.c.V	Max. charging/discharging current..... :	140A/140A
AC output (Grid)			
Rated output voltage..... :	400a.c.V,3W+N+PE	Rated output frequency ..... :	50/60Hz



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Rated output power.....:	30kW	Max. apparent power.....:	33kVA
Max. output current.....:	48A	Power factor .....	[-0.99,0.99]
<b>AC output (Stand-alone)</b>			
Rated output voltage.....:	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....:	30kW	Max. apparent power.....:	33kVA
Max. output current.....:	48A	Power factor .....	[-0.99,0.99]
<b>PV input</b>			
Vmax.....:	1000d.c.V	Isc .....	130A*1/130A*2
MPP voltage range .....	250-850d.c.V	Number of MPPT tracking .....	1/2
Max. input current .....	120A*1/120A*2		

Model type .....	MPS0050		
<b>General information</b>			
Type of inverter .....	isolated	Separated by .....	Transformer
Safety class.....:	Class I	IP grade .....	IP20
Over-voltage category .....	DC Input: II AC Output: III	Pollution degree.....:	External PD3 Internal PD2
Operating temperature.....:	-30°C to +60°C	Altitude.....:	3000m



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	(>55°C power derating)		
Max. weight.....:	750kg	Dimension (W x D x H).....:	800mm*800mm*1900mm
Firmware of control board.....:	V9	Firmware of LCD.....:	V9
<b>DC input</b>			
Cut off voltage.....:	850d.c.V	Battery type.....:	Lead acid and lithium battery
Battery voltage range.....:	320-850d.c.V	Max. charging/discharging current.....:	178A/178A
<b>AC output (Grid)</b>			
Rated output voltage.....:	400a.c.V,3W+N+PE	Rated output frequency.....:	50/60Hz
Rated output power.....:	50kW	Max. apparent power.....:	55kVA
Max. output current.....:	80A	Power factor.....:	[-0.99,0.99]
<b>AC output (Stand-alone)</b>			
Rated output voltage.....:	400a.c.V,3W+N+PE	Rated output frequency.....:	50/60Hz
Rated output power.....:	50kW	Max. apparent power.....:	55kVA
Max. output current.....:	80A	Power factor.....:	[-0.99,0.99]



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PV input			
Vmax.....:	1000d.c.V	Isc .....	130A*1/130A*2
MPP voltage range .....	250-850d.c.V	Number of MPPT tracking .....	1/2
Max. input current .....	120A*1/120A*2		

Model type .....	MPS0100		
General information			
Type of inverter .....	isolated	Separated by .....	Transformer
Safety class.....	Class I	IP grade .....	IP20
Over-voltage category .....	DC Input: II AC Output: III	Pollution degree.....	External PD3 Internal PD2
Operating temperature.....	-30°C to +60°C (>55°C power derating)	Altitude.....	3000m
Max. weight.....	1180kg	Dimension (W x D x H) .....	1200mm*800mm* 2050mm
Firmware of control board .....	V9	Firmware of LCD .....	V9
DC input			
Vmax.....	850d.c.V	Battery type.....	Lead acid and lithium battery



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Battery voltage range..... :	420-850d.c.V	Max. charging/discharging current..... :	270A/270A
AC output (Grid)			
Rated output voltage..... :	400a.c.V,3W+N+PE	Rated output frequency ..... :	50/60Hz
Rated output power..... :	100kW	Max. apparent power ..... :	110kVA
Max. output current ..... :	158A	Power factor..... :	[-0.99,0.99]
AC output (Stand-alone)			
Rated output voltage..... :	400a.c.V,3W+N+PE	Rated output frequency ..... :	50/60Hz
Rated output power..... :	100kW	Max. apparent power ..... :	110kVA
Max. output current ..... :	158A	Power factor..... :	[-0.99,0.99]
PV input			
Vmax..... :	1000d.c.V	Isc ..... :	130A*2/130A*3/130A*4
MPP voltage range ..... :	250-850d.c.V	Number of MPPT tracking ..... :	2/3/4
Max. input current ..... :	120A*2/120A*3/120A*4		
Model type ..... :	MPS0150		
General information			



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Type of inverter .....	isolated	Separated by .....	Transformer
Safety class.....	Class I	IP grade .....	IP20
Over-voltage category .....	DC Input: II AC Output: III	Pollution degree.....	External PD3 Internal PD2
Operating temperature.....	-30°C to +60°C (>55°C power derating)	Altitude.....	3000m
Max. weight .....	1310kg	Dimension (W x D x H) .....	1200mm*800mm* 2050mm
Firmware of control board.....	V9	Firmware of LCD .....	V9
<b>DC input</b>			
Vmax.....	850d.c.V	Battery type.....	Lead acid and lithium battery
Battery voltage range.....	420-850d.c.V	Max. charging/discharging current.....	405A/405A
<b>AC output (Grid)</b>			
Rated output voltage.....	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....	150kW	Max. apparent power .....	165kVA
Max. output current .....	238A	Power factor.....	[-0.99,0.99]



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AC output (Stand-alone)			
Rated output voltage.....:	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....:	150kW	Max. apparent power.....:	165kVA
Max. output current.....:	238A	Power factor.....:	[-0.99,0.99]
PV input			
Vmax.....:	1000d.c.V	Isc .....	130A*2/130A*3/130A*4
MPP voltage range .....	250-850d.c.V	Number of MPPT tracking .....	2/3/4
Max. input current .....	120A*2/120A*3/120A*4		

Model type .....	MPS0250		
General information			
Type of inverter .....	isolated	Separated by .....	Transformer
Safety class.....	Class I	IP grade .....	IP20
Over-voltage category .....	DC Input: II	Pollution degree.....	External PD3
	AC Output: III		Internal PD2
Operating temperature.....	-30°C to +60°C (>55°C power derating)	Altitude.....	3000m



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Max. weight.....:	2010kg	Dimension (W x D x H).....:	1800mm*800mm* 2050mm
Firmware of control board.....:	V9	Firmware of LCD .....	V9
<b>DC input</b>			
Vmax.....:	850d.c.V	Battery type.....:	Lead acid and lithium battery
Battery voltage range.....:	420-850d.c.V	Max. charging/discharging current.....:	675A/675A
<b>AC output (Grid)</b>			
Rated output voltage.....:	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....:	250kW	Max. apparent power .....	275kVA
Max output current.....:	397A	Power factor.....:	[-0.99,0.99]
<b>AC output (Stand-alone)</b>			
Rated output voltage.....:	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....:	250kW	Max. apparent power .....	275kVA
Max output current.....:	397A	Power factor.....:	[-0.99,0.99]
<b>PV input</b>			
Vmax.....:	1000d.c.V	Isc .....	130A*5/130A*6



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MPP voltage range .....	250-850d.c.V	Number of MPPT tracking .....	5/6
Max. input current .....	120A*5/120A*6		

Model type .....	MPS0500
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## General information

Type of inverter .....	isolated	Separated by .....	Transformer
Safety class.....	Class I	IP grade .....	IP20
Over-voltage category .....	DC Input: II AC Output: III	Pollution degree.....	External PD3 Internal PD2
Operating temperature.....	-30°C to +60°C (>55°C power derating)	Altitude .....	3000m
Max. weight.....	3325kg	Dimension (W x D x H) .....	2800mm*1050mm *2050mm
Firmware of control board .....	V9	Firmware of LCD .....	V9

## DC input

Vmax.....	850d.c.V	Battery type.....	Lead acid and lithium battery
Battery voltage range.....	500-850d.c.V	Max. charging/discharging current.....	1128A/1128A



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AC output (Grid)			
Rated output voltage.....:	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....:	500kW	Max. apparent power .....	550kVA
Max output current .....	794A	Power factor.....:	[-0.99,0.99]
AC output (Stand-alone)			
Rated output voltage.....:	400a.c.V,3W+N +PE	Rated output frequency .....	50/60Hz
Rated output power.....:	500kW	Max. apparent power .....	550kVA
Max output current .....	794A	Power factor.....:	[-0.99,0.99]
PV input			
Vmax.....:	1000d.c.V	Isc .....	130A*10/130A*11/ 130A*12
MPP voltage range .....	250-850d.c.V	Number of MPPT tracking .....	10/11/12
Max. input current .....	120A*10/120A*11/120A*12		

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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