

CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

INTELLIGENT CHARGING SYSTEMS

10 SANDERSONS WAY, BLACKPOOL, LANCASHIRE, FY4 4NB

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 Solar Inverter
Model type(s):	ICSESSH3K, ICSESSH4K, ICSESSH5K, ICSESSH6K
Standard(s):	EN 62109-1:2010, EN 62109-2:2011

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.

Registered no.:	44 799 23 406749 - 082
Test report no.:	492012380.001
File no.:	PVP11063/22E-01



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2023-04-12

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.

ANNEX

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to Certificate registration no. 44 799 23 406749 - 082

Description of product(s):

Model type	ICSESSH3K		
General information			
Type of Isolation.....	Non Isolated	Number of DC connection:	2 PV & 1 Battery
Safety class.....	Class I	IP grade	IP65
Firmware [DSP / MCU]	V1.01.01	LCD [version]	V1.00.01
PV parameter			
MPP Voltage Range [V d.c.].....	125-500	Isc [A d.c.]	17.5*2
Max. input Power [kW].....	4.6	Max. Input Current [A d.c.].....	14*2
Battery parameter			
Battery Rated Voltage [V d.c.] ...	48	Max. Charging/Discharging Voltage [V d.c.]	58
Max. Discharging Current [A d.c.]:	76.6	Max. Charging Current [A d.c.] ..	95
AC parameter (Grid/Stand-alone)			
Max. Apparent Power [kVA].....	3.6	Max. Current [A a.c.].....	16
Rated voltage [V a.c.]	230	Rated Frequency [Hz].....	50/60
Power Factor cosφ [λ]	[-0.99,0.99]	-	-



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Model type	ICSESSH4K		
General information			
Type of Isolation.....	Non Isolated	Number of DC connection:	2 PV &1 Battery
Safety class.....	Class I	IP grade	IP65
Firmware [DSP / MCU]	V1.01.01	LCD [version]	V1.00.01
PV parameter			
MPP Voltage Range [V d.c.].....	125-500	Isc [A d.c.]	17.5*2
Max. input Power [kW].....	6	Max. Input Current [A d.c.].....	14*2
Battery parameter			
Battery Rated Voltage [V d.c.] ...:	48	Max. Charging/Discharging Voltage [V d.c.]	58
Max. Discharging Current [A d.c.]:	83.3	Max. Charging Current [A d.c.] ..:	95
AC parameter (Grid/Stand-alone)			
Max. Apparent Power [kVA].....	4	Max. Current [A a.c.].....	17.4
Rated voltage [V a.c.]	230	Rated Frequency [Hz].....	50/60
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-



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Model type	ICSESSH5K		
General information			
Type of Isolation.....	Non Isolated	Number of DC connection:	2 PV &1 Battery
Safety class.....	Class I	IP grade	IP65
Firmware [DSP / MCU]	V1.01.01	LCD [version]	V1.00.01
PV parameter			
MPP Voltage Range [V d.c.].....	125-500	Isc [A d.c.]	17.5*2
Max. input Power [kW].....	7	Max. Input Current [A d.c.].....	14*2
Battery parameter			
Battery Rated Voltage [V d.c.] ...:	48	Max. Charging/Discharging Voltage [V d.c.]	58
Max. Discharging Current [A d.c.]:	104.2	Max. Charging Current [A d.c.]..:	95
AC parameter (Grid/Stand-alone)			
Max. Apparent Power [kVA].....	5	Max. Current [A a.c.].....	21.7
Rated voltage [V a.c.]	230	Rated Frequency [Hz].....	50/60
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-



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Model type	ICSESSH6K		
General information			
Type of Isolation.....	Non Isolated	Number of DC connection:	2 PV &1 Battery
Safety class.....	Class I	IP grade	IP65
Firmware [DSP / MCU]	V1.01.01	LCD [version]	V1.00.01
PV parameter			
MPP Voltage Range [V d.c.].....	125-500	I _{sc} [A d.c.]	17.5*2
Max. input Power [kW].....	7	Max. Input Current [A d.c.].....	14*2
Battery parameter			
Battery Rated Voltage [V d.c.] ...:	48	Max. Charging/Discharging Voltage [V d.c.]	58
Max. Discharging Current [A d.c.]:	110	Max. Charging Current [A d.c.]..:	95
AC parameter (Grid/Stand-alone)			
Max. Apparent Power [kVA].....	6	Max. Current [A a.c.].....	26
Rated voltage [V a.c.]	230	Rated Frequency [Hz].....	50/60
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-