



Product Service

Compliance Document

No. D 090313 0046 Rev. 00

Holder of Attestation: **Autarco Group BV**

Torenallee 20
5617 BC Eindhoven
THE NETHERLANDS

Product:

**Converter
Hybrid Inverter**

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the particular sample. This compliance document makes no statement regarding the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 4812825031100

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(Ming Gu)



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Model(s): S2.MH3000-MIII, S2.MH3600-MIII,
S2.MH5000-MIII, S2.MH6000-MIII,
S2.MH8000-MIII, S2.MH3000M-MIII,
S2.MH3600M-MIII, S2.MH5000M-MIII,
S2.MH6000M-MIII, S2.MH8000M-MIII,
S2.MH10000M-MIII

Parameters:

Model	S2.MH3000-MIII	S2.MH3600-MIII	S2.MH5000-MIII
PV input			
Max. input voltage	500 Vd.c.	500 Vd.c.	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x16 Ad.c.	2x16 Ad.c.	2x16 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x20 Ad.c.	2x20 Ad.c.
Battery input			
Battery type	Li-ion/Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	70 Ad.c.	80 Ad.c.	112 Ad.c.
Max. discharge current	70 Ad.c.	80 Ad.c.	112 Ad.c.
AC output (Back-up)			
Max. (rated) output power	3000 W	3600 W	5000 W
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Nominal frequency	50/60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	3000 VA	3600 VA	5000 VA
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Nominal frequency	50/60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Max. (rated) continuous current	21 Aa.c.@ 220 Va.c. 20 Aa.c.@ 230 Va.c.	25 Aa.c.@ 220 Va.c. 24 Aa.c.@ 230 Va.c.	32 Aa.c.@ 220 Va.c. 31 Aa.c.@ 230 Va.c.
Nominal frequency	50/60 Hz		
General parameters			



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Power factor range	-0.8, ..., 1, ..., +0.8
Protective class	I
Ingress protection	IP66
Operating temperature range	-40°C, ..., +60 °C



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Model	S2.MH6000-MIII	S2.MH8000-MIII
PV input		
Max. input voltage	500 Vd.c.	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x16 Ad.c.	2x32 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x40 Ad.c.
Battery input		
Battery type	Li-ion/Lead-acid	
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	135 Ad.c.	190 Ad.c.
Max. discharge current	135 Ad.c.	190 Ad.c.
AC output (Back-up)		
Max./rated output power	6000 W	8000 W
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.	
Nominal frequency	50/60 Hz	
Max. (rated) output current	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC output (Grid side)		
Max. (rated) apparent output power	6000 VA	8000 VA
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.	
Nominal frequency	50/60 Hz	
Max. (rated) output current	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC input		
Nominal voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.	
Max. (rated) continuous current	40 Aa.c. @ 220 Va.c. 39 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.
Nominal frequency	50/60 Hz	
General parameters		
Power factor range	-0.8, ..., 1, ..., +0.8	
Protective class	I	
Ingress protection	IP66	
Operating temperature range	-40°C, ..., +60 °C	



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Model	S2.MH3000M-MIII	S2.MH3600M-MIII
PV input		
Max. input voltage	500 Vd.c.	
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x21 Ad.c.	2x21 Ad.c.
Isc PV (absolute maximum)	2x24Ad.c.	2x24 Ad.c.
MPPT number/max input strings number	2/2	2/2
Battery input		
Battery type	Li-ion / Lead-acid	
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	70 Ad.c.	80 Ad.c.
Max. discharge current	70 Ad.c.	80 Ad.c.
AC output (Back-up)		
Max. (rated) output power	3000 W	3600 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.	
Nominal frequency	50 / 60 Hz	
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.
AC output (Grid side)		
Max. (rated) apparent output power	3000 VA	3600 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.	
Nominal frequency	50 / 60 Hz	
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.
AC input		
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.	
Max. (rated) continuous current	21 Aa.c.@ 220 Va.c. 20 Aa.c.@ 230 Va.c.	25 Aa.c.@ 220 Va.c. 24 Aa.c.@ 230 Va.c.



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Nominal frequency	50 / 60 Hz
Power factor range	-0.8, ..., 1, ..., +0.8
Protective class	I
Ingress protection	IP66
Operating temperature range	-40°C, ..., +60 °C



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Model	S2.MH5000M- MIII	S2.MH6000M- MIII	S2.MH8000M- MIII
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x21 Ad.c.	2x21 Ad.c.	2x42 Ad.c.
Isc PV (absolute maximum)	2x24 Ad.c.	2x24 Ad.c.	2x48 Ad.c.
MPPT number/max input strings number	2/2	2/2	2/4
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	112 Ad.c.	135 Ad.c.	190 Ad.c.
Max. discharge current	112 Ad.c.	135 Ad.c.	190 Ad.c.
AC output (Back-up)			
Max. (rated) output power	5000 W	6000 W	8000 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max./rated output current	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	5000 VA	6000 VA	8000 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	32 Aa.c.@ 220 Va.c. 31 Aa.c.@ 230 Va.c.	40 Aa.c.@ 220 Va.c. 39 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature	-40°C, ..., +60 °C		



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range	
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Model	S2.MH10000M-MIII
PV input	
Max. input voltage	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.
Max. input current	2x42 Ad.c.
Isc PV (absolute maximum)	2x48 Ad.c.
MPPT number/max input strings number	2/4
Battery input	
Battery type	Li-ion / Lead-acid
Battery voltage range	40, ..., 60 Vd.c.
Max. charge current	210 Ad.c.
Max. discharge current	210 Ad.c.
AC output (Back-up)	
Max. (rated) output power	10000 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.
Nominal frequency	50 / 60 Hz
Max./rated output current	45.5 Aa.c.@ 220 Va.c. 43.5 Aa.c.@ 230 Va.c.
AC output (Grid side)	
Max. (rated) apparent output power	10000 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.
Nominal frequency	50 / 60 Hz
Max. (rated) output current	45.5 Aa.c.@ 220 Va.c. 43.5 Aa.c.@ 230 Va.c.
AC input	
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.
Max. (rated) continuous current	65 Aa.c.@ 220 Va.c. 65 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz
Power factor range	-0.8, ..., 1, ..., +0.8
Protective class	I
Ingress protection	IP66
Operating temperature range	-40°C, ..., +60 °C



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**Tested
according to:**

IEC 61000-6-1:2016
IEC 61000-6-2:2016
IEC 61000-6-3:2020
IEC 61000-6-4:2018
IEC 61000-3-2:2018/AMD1:2020
IEC 61000-3-12:2011/AMD1:2021
IEC 61000-3-3:2013/AMD2:2021
IEC 61000-3-11:2017
IEC 62920:2017/A1:2021