

SOLARIF

RISK MANAGEMENT

1. Appendix I - Certified Modules

Certificate holder: **Tangshan Haitai New Energy Technology Co., Ltd.**

Certificate number: **SOLARIF20240115001**

Certified factory: **Tangshan Haitai New Energy Technology Co., Ltd**
Workshop #3

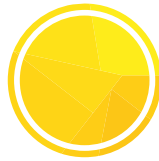
Valid from: **15 January 2024**

Expires on: **15 January 2025**

Product Portfolio

Module Type	Cell Type	Cell qty	Cell Size	Power Range(W)	Dimension (mm)	Max. system voltage	Weight (kg)	Quantity/ctn
HTM440~460M H3-72	perc	72	166	440-460	2094×1038 ×30	1000V/ 1500V	23.5	682
HTM440~460D MH3-72	perc	72	166	440-460	2094×1038 ×30	1000V/ 1500V	28	792
HTM400~420M H5-54	perc	54	182	400-420	1722×1134 ×35	1000V/ 1500V	22	806
HTM400~420D MH5-54	perc	54	182	400-420	1722×1134 ×30	1000V/ 1500V	25	936
HTM535~555M H5-72	perc	72	182	535-555	2278×1134 ×35	1000V/ 1500V	28	620
HTM535~555D MH5-72	perc	72	182	535-555	2278×1134 ×30	1000V/ 1500V	32	720
HTM650~670M H8-66	perc	66	210	650-670	2384×1303 ×35	1000V/ 1500V	34	527
HTM650~670D MH8-66	perc	66	210	650-670	2384×1303 ×35	1000V/ 1500V	39	527
HTM415~435D MH5-54NT	TOPCO N	54	182	415-435	1722×1134 ×30	1000V/ 1500V	25	936
HTM555~575D MH5-72NT	TOPCO N	72	182	555-575	2278×1134 ×30	1000V/ 1500V	32	720
HTM615~635D MH8-60NT	TOPCO N	60	210	615-635	2172×1303 ×35	1000V/ 1500V	31	527
HTM680~700D MH8-66NT	TOPCO N	66	210	680-700	2384×1303 ×35	1000V/ 1500V	39	527

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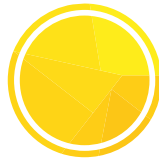
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Module standards – certification details

DESIGN QUALIFICATION/ SAFETY (IEC 61215/ IEC61730)	
Certification body	TÜV Rheinland
Certificate No	PV 50477052 0009
Date of Issue	2023-05-17
Validity	/
Tested according to	<ul style="list-style-type: none">• IEC 61215-1:2016• IEC 61215-1-1:2016• IEC 61215-2:2016• IEC 61730-1:2016• IEC 61730-2:2016• EN 61215-1:2016• EN 61215-1-1:2016• EN 61215-2:2017• EN IEC 61730-1:2018• EN IEC 61730-2:2018
Certified modules	<p>Max. System Voltage: up to 1000VDC (Voc at STC) With 6" mono c-Si cells: HTMxxxDMA-72 (xxx=335-380, in steps of 5, 72 cells) HTMxxxDMA-60 (xxx=280-315, in steps of 5, 60 cells) With 6" mono cut c-Si cells: HTMxxxDMH-72 (xxx=375-395, in steps of 5, 144 cells) HTMxxxDMH-60 (xxx=315-330, in steps of 5, 120 cells) HTMxxxDMH2-72 (xxx=385-405, in steps of 5, 144 cells) HTMxxxDMH2-60 (xxx=320-335, in steps of 5, 120 cells)</p> <p>Max. System Voltage: up to 1500 VDC (Voc at STC) With 6" mono c-Si cells: HTMxxxDMA-72 (1500) (xxx=335-380, in steps of 5, 72 cells) HTMxxxDMA-60 (1500) (xxx=280-315, in steps of 5, 60 cells) With 6" mono cut c-Si cells: HTMxxxDMH-72 (1500) (xxx=375-395,in steps of 5, 144cells) HTMxxxDMH-60 (1500)(xxx=315-330, in steps of 5, 120 cells) HTMxxxDMH2-72(1500)(xxx=385-405,in steps of 5,144 cells) HTMxxxDMH2-60(1500)(xxx=320-335,in steps of 5,120 cells)</p> <p>Max. System Voltage: up to 1000VDC (Voc at STC) With half cut mono c-Si cells: HTMxxxDMH5-72(xxx=525-555, in steps of 5, 144 cells) HTMxxxDMH5-60(xxx=440-460, in steps of 5, 120 cells) HTMxxxDMH3-72(xxx=425-470, in steps of 5, 144 cells)</p>

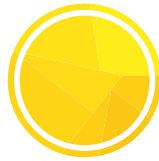
Certificate number: **SOLARIF20240115001**



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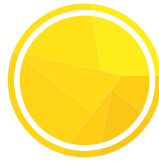
	<p>HTMxxxDMH3-60(xxx=355-390, in steps of 5, 120 cells)</p> <p>Max. System Voltage: up to 1500VDC (Voc at STC) With half cut mono c-Si cells: HTMxxxDMH5-72(1500)(xxx=525-555,in steps of 5,144 cells) HTMxxxDMH5-60(1500)(xxx=440-460,in steps of 5,120 cells) HTMxxxDMH3-72(1500)(xxx=425-470,in steps of 5,144 cells) HTMxxxDMH3-60(1500)(xxx=355-390,in steps of 5,120 cells)</p> <p>Max. System Voltage: up to 1500VDC (Voc at STC) With 1/3 cut mono c-Si cells: HTMxxxDMT8-50 (1500) (xxx=485-510, in steps of 5, 150 cells) HTMxxxDMT8-40(1500) (xxx=390-405, in steps of 5, 120 cells)</p> <p>Max. System Voltage: up to 1000VDC (Voc at STC) With 1/3 cut mono c-Si cells: HTMxxxDMT8-50 (xxx=485-510, in steps of 5, 150 cells) HTMxxxDMT8-40 (xxx=390-405, in steps of 5, 120 cells)</p> <p>Max. System Voltage: up to 1500VDC (Voc at STC): With half cut mono c-Si cells: HTMxxxDMH5-78 (1500) (xxx=580-605, in steps of 5, 156 cells)</p> <p>Max. System Voltage: up to 1000VDC (Voc at STC): With half cut mono c-Si cells: HTMxxxDMH5-78 (xxx= 580-605, in steps of 5, 156 cells)</p> <p>Max. System Voltage: up to 1500VDC (Voc at STC): With half cut mono c-si cells: HTMxxxDMH8-66(1500)(xxx=635-670, in steps of 5, 132 cells) HTMxxxDMH8-60(1500) (xxx=585-605, in steps of 5, 120 cells) System Voltage: up to 1000VDC (Voc at STC): Max. With half cut mono c-Si cells: HTMxxxDMH8-66 (xxx=635-670, in steps of 5, 132 cells) HTMxxxDMH8-60 (xxx=585-605, in steps of 5, 120 cells)</p> <p>Max. System Voltage: up to 1500VDC (Voc at STC) : With half cut mono c-Si cells:</p>
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	<p>HTMxxxDMH5 - 54NT(1500) (xxx=410-430, in steps of 5, 108 cells) HTMxxxDMH5 - 60NT(1500) (xxx =455-480,in steps of 5, 120 cells) HTMxxxDMH5- 72NT(1500) (xxx =545-575, in steps of 5, 144 cells) HTMxxxDMH5- 54(1500) (xxx =395-415, in steps of 5, 108 cells) Max. System Voltage: up to 1000VDC (Voc at STC): With half cut mono c-Si cells: HTMxxxDMH5 - 54NT(xxx =410-430, in steps of 5, 108 cells) HTMxxxDMH5 - 60NT(xxx =455-480, in steps of 120 cells) HTMxxxDMH5 - 72NT(xxx =545-575, in steps of 5, 144 cells) HTMxxxDMH5-54 (xxx =395-415, in steps of 5, 108 cells)</p> <p>System Voltage: up to 1500VDC (Voc at STC): Max. With half cut mono c-si cells: HTMxxxDMH8-66NT (1500)(xxx =660-700, in steps of 5, 132 cells) HTMxxxDMH8-60NT (1500)(xxx =600-635, in steps of 5, 120 cels)</p> <p>System Voltage: up to 1000VDC (Voc at sTC): Max. With half cut mono c-Si cells: HTMxxxDMH8-66NT(xxx =660-700, in steps of 5, 132 cells) HTMxxxDMH8-60NT(xxx=600-635, in steps of 5, 120 cells)</p> <p>Max. System Voltage: up to 1500VDC (Voc at STC): With 8" mono half-cut c-Si cells: HTMxxxDMH8-66NH (1500)(xxx =670-700, in steps of 5, 132 cells) HTMxxxDMH8-60NH (1500)(xxx =610-635, in steps of 5, 120 cells) with 6" mono half-cut c-Si cells: HTMxxxDMH3-72NH (1500)(xxx =450-475, in steps of 5, 144 cells) HTMxxxDMH3-60NH (1500)(xxx =375-395, in steps of 5, 120 cells)</p>
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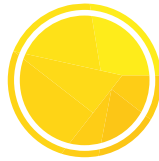


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DESIGN QUALIFICATION/ SAFETY (IEC 61215/ IEC61730)	
Certification body	TÜV SÜD
Certificate No	Z2 078666 0036 Rev.12
Date of Issue	2023-03-30
Validity	2028-03-23
Tested according to	<ul style="list-style-type: none">• IEC 61215-1:2016• IEC 61215-1-1:2016• IEC 61215-2:2016• IEC 61730-1:2016• IEC 61730-2:2016• EN 61215-1:2016• EN 61215-1-1:2016• EN 61215-2:2017• EN IEC 61730-1:2018• EN IEC 61730-2:2018• EN IEC 61730-1:2018/AC:2018-06• EN IEC 61730-2:2018/AC:2018-06
Tested modules	<p>1000V DC modules: HTMxxxMA-72 (xxx=330-385, in steps of 5) HTMxxxMA-60 (xxx=275-320, in steps of 5) HTMxxxMA-54 (xxx=250-285, in steps of 5)</p> <p>1000V DC half-cell modules: HTMxxxMH-72 (xxx=340-390, in steps of 5) HTMxxxMH-60 (xxx=285-325, in steps of 5) HTMxxxMH-54 (xxx=255-290, in steps of 5) HTMxxxMH2-72 (xxx=390-425, in steps of 5) HTMxxxMH2-60 (xxx=325-350, in steps of 5) HTMxxxMH3-72 (xxx=415-460, in steps of 5) HTMxxxMH3-60 (xxx=345-380, in steps of 5) HTMxxxMH5-72 (xxx=520-555, in steps of 5) HTMxxxMH5-66 (xxx=480-505, in steps of 5) HTMxxxMH5-60 (xxx=435-460, in steps of 5) HTMxxxMH5-54 (xxx=390-415, in steps of 5) HTMxxxMH8-66 (xxx=635-670, in steps of 5) HTMxxxMH8-60 (xxx=580-605, in steps of 5) HTMxxxMH5-72NT (xxx=555-580, in steps of 5) HTMxxxMH5-60NT (xxx=465-480, in steps of 5) HTMxxxMH5-54NT (xxx=415-435, in steps of 5)</p> <p>1000V DC half-cell frameless modules with cooling system: HTMxxxMH2-72-COOL (xxx=390-425, in steps of 5)</p>

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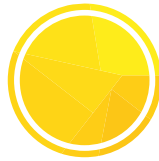


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	<p>HTMxxxMH2-60-COOL (xxx=325-350, in steps of 5) 1000V DC 1/3 cut cell modules: HTM-TSB-xxxM1 (xxx=380-420, in steps of 5) HTM-TSA-xxxM1 (xxx=315-345, in steps of 5) HTM-NHN-xxxM (xxx=380-420, in steps of 5) HTM-NHN-xxxM (xxx=315-345, in steps of 5) HTM-TSB-xxxM2 (xxx=410-445, in steps of 5) HTM-TSA-xxxM2 (xxx=340-365, in steps of 5) HTMxxxMT8-50 (xxx=480-510, in steps of 5) HTMxxxMT8-40 (xxx=385-405, in steps of 5) 1500V DC modules: HTMxxxMA-72(1500) (xxx=340-385, in steps of 5) HTMxxxMA-60(1500) (xxx=285-320, in steps of 5) HTMxxxMA-54(1500) (xxx=255-285, in steps of 5) 1500V DC half-cell modules: HTMxxxMH-72(1500) (xxx=340-390, in steps of 5) HTMxxxMH-60(1500) (xxx=285-325, in steps of 5) HTMxxxMH-54(1500) (xxx=255-290, in steps of 5) HTMxxxMH2-72(1500) (xxx=390-425, in steps of 5) HTMxxxMH2-60(1500) (xxx=325-350, in steps of 5) HTMxxxMH3-72(1500) (xxx=415-460, in steps of 5) HTMxxxMH3-60(1500) (xxx=345-380, in steps of 5) HTMxxxMH5-72(1500) (xxx=520-555, in steps of 5) HTMxxxMH5-66(1500) (xxx=480-505, in steps of 5) HTMxxxMH5-60(1500) (xxx=435-460, in steps of 5) HTMxxxMH5-54(1500) (xxx=390-415, in steps of 5) HTMxxxMH8-66(1500) (xxx=635-670, in steps of 5) HTMxxxMH8-60(1500) (xxx=580-605, in steps of 5) HTMxxxMH5-72NT(1500) (xxx=555-580, in steps of 5) HTMxxxMH5-60NT(1500) (xxx=465-480, in steps of 5) HTMxxxMH5-54NT(1500) (xxx=415-435, in steps of 5) 1500V DC half-cell frameless modules with cooling system: HTMxxxMH2-72-COOL (1500) (xxx=390-425, in steps of 5) HTMxxxMH2-60-COOL (1500) (xxx=325-350, in steps of 5) 1500V DC 1/3 cut cell modules: HTM-TSB-xxxM1(1500) (xxx=380-420, in steps of 5) HTM-TSA-xxxM1(1500) (xxx=315-345, in steps of 5) HTM-NHN-xxxM(1500) (xxx=380-420, in steps of 5) HTM-NHN-xxxM(1500) (xxx=315-345, in steps of 5) HTM-TSB-xxxM2(1500) (xxx=410-445, in steps of 5) HTM-TSA-xxxM2(1500) (xxx=340-365, in steps of 5) HTMxxxMT8-50(1500) (xxx=480-510, in steps of 5) HTMxxxMT8-40(1500) (xxx=385-405, in steps of 5)</p>
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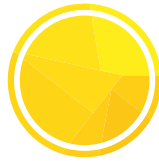
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	xxx is standing for rated output power at STC
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Salt Mist & Ammonia Corrosion	
Certification body	TÜV SÜD
Certificate No	Z2 078666 0041 Rev.02
Date of Issue	2022-06-22
Validity	2026-07-13
Tested according to	<ul style="list-style-type: none">• IEC 61215-1:2016• IEC 61215-1-1:2016• IEC 61215-2:2016• IEC 61730-1:2016• IEC 61730-2:2016• IEC 61701:2011• IEC 62716:2013
Certified modules	1000V DC modules: HTMxxxMA-72 (xxx=330-385, in steps of 5) HTMxxxMA-60 (xxx=275-320, in steps of 5) HTMxxxMA-54 (xxx=250-285, in steps of 5) 1000V DC half-cell modules: HTMxxxMH-72 (xxx=340-390, in steps of 5) HTMxxxMH-60 (xxx=285-325, in steps of 5) HTMxxxMH-54 (xxx=255-290, in steps of 5) HTMxxxMH2-72 (xxx=390-425, in steps of 5) HTMxxxMH2-60 (xxx=325-350, in steps of 5) HTMxxxMH3-72 (xxx=415-460, in steps of 5) HTMxxxMH3-60 (xxx=345-380, in steps of 5) HTMxxxMH5-72 (xxx=520-555, in steps of 5) HTMxxxMH5-66 (xxx=480-505, in steps of 5) HTMxxxMH5-60 (xxx=435-460, in steps of 5) HTMxxxMH5-54 (xxx=390-415, in steps of 5) HTMxxxMH8-66 (xxx=635-670, in steps of 5) HTMxxxMH8-60 (xxx=580-605, in steps of 5) 1000V DC 1/3 cut cell modules: HTM-TSB-xxxM1 (xxx=380-420, in steps of 5) HTM-TSA-xxxM1 (xxx=315-345, in steps of 5) HTM-NHN-xxxM (xxx=380-420, in steps of 5) HTM-NHN-xxxM (xxx=315-345, in steps of 5) HTM-TSB-xxxM2 (xxx=410-445, in steps of 5) HTM-TSA-xxxM2 (xxx=340-365, in steps of 5) HTMxxxMT8-50 (xxx=480-510, in steps of 5)

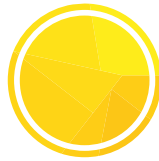
Certificate number: **SOLARIF20240115001**



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	<p>HTMxxxMT8-40 (xxx=385-405, in steps of 5) 1500V DC modules: HTMxxxMA-72(1500) (xxx=340-385, in steps of 5) HTMxxxMA-60(1500) (xxx=285-320, in steps of 5) HTMxxxMA-54(1500) (xxx=255-285, in steps of 5) 1500V DC half-cell modules: HTMxxxMH-72(1500) (xxx=340-390, in steps of 5) HTMxxxMH-60(1500) (xxx=285-325, in steps of 5) HTMxxxMH-54(1500) (xxx=255-290, in steps of 5) HTMxxxMH2-72(1500) (xxx=390-425, in steps of 5) HTMxxxMH2-60(1500) (xxx=325-350, in steps of 5) HTMxxxMH3-72(1500) (xxx=415-460, in steps of 5) HTMxxxMH3-60(1500) (xxx=345-380, in steps of 5) HTMxxxMH5-72(1500) (xxx=520-555, in steps of 5) HTMxxxMH5-66(1500) (xxx=480-505, in steps of 5) HTMxxxMH5-60(1500) (xxx=435-460, in steps of 5) HTMxxxMH5-54(1500) (xxx=390-415, in steps of 5) HTMxxxMH8-66(1500) (xxx=635-670, in steps of 5) HTMxxxMH8-60(1500) (xxx=580-605, in steps of 5) 1500V DC 1/3 cut cell modules: HTM-TSB-xxxM1(1500) (xxx=380-420, in steps of 5) HTM-TSA-xxxM1(1500) (xxx=315-345, in steps of 5) HTM-NHN-xxxM (1500) (xxx=380-420, in steps of 5) HTM-NHN-xxxM (1500) (xxx=315-345, in steps of 5) HTM-TSB-xxxM2(1500) (xxx=410-445, in steps of 5) HTM-TSA-xxxM2(1500) (xxx=340-365, in steps of 5) HTMxxxMT8-50(1500) (xxx=480-510, in steps of 5) HTMxxxMT8-40(1500) (xxx=385-405, in steps of 5) xxx is standing for rated output power at STC</p>
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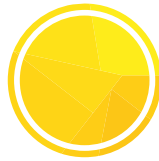


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Ammonia Corrosion	
Certification body	TÜV NORD
Certificate No	4478020406749-125R2M2
Date of Issue	2023-07-31
Validity	2025-07-16
Tested according to	IEC62716:2013/EN62716: 2013+ AC:2014
Certified modules	<p>Double Glass PV Modules with 6" Mono Half-cut Solar Cells:</p> <p>144 half-cut cells: HTMxxxDMH-72(xxx=375-395, in increments of 5)</p> <p>120 half-cut cells: HTMxxxDMH-60(xxx=315-330, in increments of 5)</p> <p>144 half-cut cells: HTMxxxDMH2-72(xxx=385-405, in increments of 5)</p> <p>120 half-cut cells: HTMxxxDMH2-60(xxx=320-335, in increments of 5)</p> <p>144 half-cut cells: HTMxxxDMH3-72(xxx=425-470, in increments of 5)</p> <p>120 half-cut cells: HTMxxxDMH3-60(xxx=355-390, in increments of 5)</p> <p>Double Glass PV Modules with 7" Mono Half-cut Solar Cells:</p> <p>144 half-cut cells: HTMxxxDMH5-72(xxx=525-555, in increments of 5)</p> <p>120 half-cut cells: HTMxxxDMH5-60(xxx=440-460, in increments of 5)</p> <p>Double Glass PV Modules with 8" Mono 1/3-cut Solar Cells:</p> <p>150 1/3-cut cells: HTMxxxDMT8-50(xxx=485-510, in increments of 5)</p> <p>120 1/3-cut cells: HTMxxxDMT8-40(xxx=390-405, in increments of 5)</p> <p>Double Glass PV Modules with 7" Half-cut TOPCon Solar Cells: 144 half-cut cells: HTMxxxDMH5-72NT (xxx=545-575, in increments of 5)</p> <p>120 half-cut cells: HTMxxxDMH5-60NT(xxx=455-580, in increments of 5)</p> <p>108 half-cut cells: HTMxxxDMH5-54NT (xxx=410-430, in increments of 5)</p>

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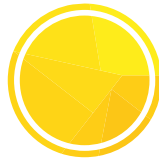


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PID	
Certification body	TÜV SÜD
Certificate No	Z2 078666 0039 Rev.07
Date of Issue	2022-11-10
Validity	2027-11-06
Tested according to	PPP 58042B:2015 IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016
Certified modules	1000V DC modules: HTMxxxMA-72 (xxx=330-385, in steps of 5) HTMxxxMA-60 (xxx=275-320, in steps of 5) HTMxxxMA-54 (xxx=250-285, in steps of 5) 1000V DC half-cell modules: HTMxxxMH-72 (xxx=340-390, in steps of 5) HTMxxxMH-60 (xxx=285-325, in steps of 5) HTMxxxMH-54 (xxx=255-290, in steps of 5) HTMxxxMH2-72 (xxx=390-425, in steps of 5) HTMxxxMH2-60 (xxx=325-350, in steps of 5) HTMxxxMH3-72 (xxx=415-460, in steps of 5) HTMxxxMH3-60 (xxx=345-380, in steps of 5) HTMxxxMH5-72 (xxx=520-555, in steps of 5) HTMxxxMH5-66 (xxx=480-505, in steps of 5) HTMxxxMH5-60 (xxx=435-460, in steps of 5) HTMxxxMH5-54 (xxx=390-415, in steps of 5) HTMxxxMH8-66 (xxx=635-670, in steps of 5) HTMxxxMH8-60 (xxx=580-605, in steps of 5) 1000V DC 1/3 cut cell modules: HTM-TSB-xxxM1 (xxx=380-420, in steps of 5) HTM-TSA-xxxM1 (xxx=315-345, in steps of 5) HTM-NHN-xxxM (xxx=380-420, in steps of 5) HTM-NHN-xxxM (xxx=315-345, in steps of 5) HTM-TSB-xxxM2 (xxx=410-445, in steps of 5) HTM-TSA-xxxM2 (xxx=340-365, in steps of 5) HTMxxxMT8-50 (xxx=480-510, in steps of 5)

Certificate number: **SOLARIF20240115001**



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HTMxxxMT8-40 (xxx=385-405, in steps of 5)

1500V DC modules:

HTMxxxMA-72(1500) (xxx=340-385, in steps of 5)

HTMxxxMA-60(1500) (xxx=285-320, in steps of 5)

HTMxxxMA-54(1500) (xxx=255-285, in steps of 5)

1500V DC half-cell modules:

HTMxxxMH-72(1500) (xxx=340-390, in steps of 5)

HTMxxxMH-60(1500) (xxx=285-325, in steps of 5)

HTMxxxMH-54(1500) (xxx=255-290, in steps of 5)

HTMxxxMH2-72(1500) (xxx=390-425, in steps of 5)

HTMxxxMH2-60(1500) (xxx=325-350, in steps of 5)

HTMxxxMH3-72(1500) (xxx=415-460, in steps of 5)

HTMxxxMH3-60(1500) (xxx=345-380, in steps of 5)

HTMxxxMH5-72(1500) (xxx=520-555, in steps of 5)

HTMxxxMH5-66(1500) (xxx=480-505, in steps of 5)

HTMxxxMH5-60(1500) (xxx=435-460, in steps of 5)

HTMxxxMH5-54(1500) (xxx=390-415, in steps of 5)

HTMxxxMH8-66(1500) (xxx=635-670, in steps of 5)

HTMxxxMH8-60(1500) (xxx=580-605, in steps of 5)

1500V DC 1/3 cut cell modules:

HTM-TSB-xxxM1(1500) (xxx=380-420, in steps of 5)

HTM-TSA-xxxM1(1500) (xxx=315-345, in steps of 5)

HTM-NHN-xxxM(1500) (xxx=380-420, in steps of 5)

HTM-NHN-xxxM(1500) (xxx=315-345, in steps of 5)

HTM-TSB-xxxM2(1500) (xxx=410-445, in steps of 5)

HTM-TSA-xxxM2(1500) (xxx=340-365, in steps of 5)

HTMxxxMT8-50(1500) (xxx=480-510, in steps of 5)

HTMxxxMT8-40(1500) (xxx=385-405, in steps of 5)

xxx is standing for rated output power at STC