CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Chint New Energy Technology Co., Ltd.
No.1, Jisheng Road, Jianshan New Zone
Haining Zhejiang, 314415
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

TÜV NORD
TÜV NORD CERT GmbH
Type Tested

Valid from: 2025-05-26
Valid until: 2029-09-10

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc1 or Lc2 Dust concentration: 5±1.5g/m^3; Wind velocity: 20±2m/s; Test duration: 4 hours each side.
Registered No.:	44 780 19 406749 - 334R10A6M9
Manufacturer:	see Annex 1
Test Report No.:	492011306.012
File No.:	PVP04039/25P-01

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Essen, 2025-05-26

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer:	**Chint New Energy Technology Co., Ltd.** No.1, Jisheng Road, Jianshan New Zone, Haining Zhejiang, 314415 P. R. China
Factory 1:	**Chint New Energy Technology Co., Ltd.** No.1, Jisheng Road, Jianshan New Zone, Haining Zhejiang, 314415 P. R. China
Factory inspection report no.:	862010317.009
Factory 2:	**Chint New Energy Technology (Yancheng) Co..Ltd.** No.1 Tonghui Road, Dafeng District, Yancheng City, Jiangsu Province
Factory inspection report no.:	862010724.003
Factory 3:	**Chint Solar (HaiNing) Co., Ltd.** No. 2 Jisheng Road, Jianshan New Zone, Haining Zhejiang, 314415 P. R. China
Factory inspection report no.:	862010726.003
Factory 4:	**M.L.T. Solar Energy Product Co.,Ltd.** 88/1 Moo. 9 Ko khanun Phanomsarakham, Chachoengsao, 24120, Thailand
Factory inspection report no.:	862010894.001
Factory 5:	**Songyuan New Energy Technology Co.,Ltd.** No.2211,Jiangye Avenue,Yadahong Enterprise Service Center, Ningjiang District,Songyuan,Jilin Province,P.R.China.
Factory inspection report no.:	862010728.002
Factory 6:	**Chint Solar Technology (Yancheng) Co.,Ltd.** No. 8, Fengyang Road, Shanghai-Suzhou-Dafeng Industry Linkage Cluster, Dafeng District, Yancheng City, Jiangsu, P.R. China
Factory inspection report no.:	862011011.001

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Factory 7:	**Chint New Energy Technology (Yanchi) Co.,Ltd.** Block 2, Yanchi County Industrial Park, Wuzhong City, (North of Gaoshawo), Ningxia, P. R. China
Factory inspection report no.:	862011015.001
Factory 8:	**Chint Solar Technology (Yiwu) Co.,Ltd.** No. 1, Qingcheng West Road, Fotang Town, Yiwu City, Jinhua City, Zhejiang, P. R. China
Factory inspection report no.:	862011012.001
Factory 9:	**Chint Solar Technology (Yueqing) Co.,Ltd.** No.1 Xinneng Road, Yueqing Bay Harbor Economic Development Zone, Yueqing, Wenzhou City, Zhejiang, P.R. China
Factory inspection report no.:	862011013.001
Factory 10:	**Chint New Energy Technology (Fuyang) Co.,Ltd.** No.177, TongDeng Road, Lingqiao Town, Fuyang District, Hangzhou, Zhejiang Province, P.R. China
Factory inspection report no.:	862011014.001
Factory 11:	**Chint New Energy Technology Co., Ltd.** (M4) No. 2 Jisheng Road, Jianshan New Zone,Haining, 314415 Zhejiang, P.R. China
Factory inspection report no.:	862011035.001
Factory 12:	**ASTRONERGY SOLAR PANEL URETIM VE TICARET ANONIM SIRKETI ADANA SUBESI** ACIDEREOSB MAH. SEDEF CAD. NO: 1 SARICAM 01900 ADANA, Türkiye
Factory inspection report no.:	862011036.001
Factory 13:	**Chint New Energy Technology (Jiuquan) Co.,Ltd.** 15 Jingwu Road, Jiuquan economic and Technological Development Zone,Suzhou District, Jiuquan City, Gansu Province.
Factory inspection report no.:	862010725.003

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Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

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Description of product(s):

Module types:	**Double Glass PV Modules with Poly-crystalline Silicon Solar Cells:** 72 cells: CHSM6612P(DG)/F-xxx (xxx=310-340, in steps of 5) 72 cells: CHSM72P(DG)-B-xxx (xxx=370-395, in steps of 5) 72 cells: CHSM72P(DG)/F-B-xxx (xxx=370-395, in steps of 5) 60 cells: CHSM60P(DG)-B-xxx (xxx=310-325, in steps of 5) 60 cells: CHSM60P(DG)/F-B-xxx (xxx=310-325, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Module types:	**Double Glass PV Modules with Half-cut Poly-crystalline Silicon Solar Cells:** 144 cells: CHSM72P(DG)-BH-xxx (xxx=385-440, in steps of 5) 144 cells: CHSM72P(DG)/F-BH-xxx (xxx=385-440, in steps of 5) 120 cells: CHSM60P(DG)-BH-xxx (xxx=320-365, in steps of 5) 120 cells: CHSM60P(DG)/F-BH-xxx (xxx=320-365, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

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Module types:	**Double Glass PV Modules with Mono-crystalline Silicon Solar Cells:** 72 cells: CHSM6612M(DG)/F-xxx (xxx=310-360, in steps of 5) 72 cells: CHSM72M(DG)-B-xxx (xxx=345-400, in steps of 5) 72 cells: CHSM72M(DGT)-B-xxx (xxx=340-370, in steps of 5) 72 cells: CHSM72M(DG)/F-B-xxx (xxx=345-400, in steps of 5) 72 cells: CHSM72M(DGT)/F-B-xxx (xxx=340-370, in steps of 5) 60 cells: CHSM60M(DG)-B-xxx (xxx=285-330, in steps of 5) 60 cells: CHSM60M(DGT)-B-xxx (xxx=280-305, in steps of 5) 60 cells: CHSM60M(DG)/F-B-xxx (xxx=285-330, in steps of 5) 60 cells: CHSM60M(DGT)/F-B-xxx (xxx=280-305, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Module types:	**Double Glass PV Modules with Half-cut Mono-crystalline Silicon Solar Cells:** 156 half-cut cells: CHSM78M(DG)/F-BH-xxx (xxx=580-605, in steps of 5) 144 half-cut cells: CHSM72M(DG)-BH-xxx (xxx=365-455, 515-565, in steps of 5) 144 half-cut cells: CHSM72M(DG)/F-BH-xxx (xxx=365-455, 515-565, in steps of 5) 144 half-cut cells: CHSM72M(DG)/F-HC-xxx (xxx=535-555, in steps of 5) 144 half-cut cells: CHSM72M(DGT)-BH-xxx (xxx=355-445, 505-565, in steps of 5) 144 half-cut cells: CHSM72M(DGT)/F-BH-xxx (xxx=355-445, 505-565, in steps of 5) 132 half-cut cells: CHSM66M(DGT)-BH-xxx (xxx=465-515, in steps of 5) 132 half-cut cells: CHSM66M(DGT)/F-BH-xxx (xxx=465-515, in steps of 5) 132 half-cut cells: CHSM66M(DG)-BH-xxx (xxx=475-515, in steps of 5) 132 half-cut cells: CHSM66M(DG)/F-BH-xxx (xxx=475-515, 635-675 in steps of 5) 120 half-cut cells: CHSM60M(DG)-BH-xxx (xxx=305-380, in steps of 5) 120 half-cut cells: CHSM60M(DG)/F-BH-xxx (xxx=305-380, 430-470, 580-610, in steps of 5) 120 half-cut cells: CHSM60M(DG)/F-HC-xxx (xxx=450-475, in steps of 5) 120 half-cut cells: CHSM60M(DGT)-BH-xxx (xxx=295-370, in steps of 5) 120 half-cut cells: CHSM60M(DGT)/F-BH-xxx (xxx=295-370, in steps of 5)

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108 half-cut cells: CHSM54M(DG)-BH-xxx (xxx=390-420, in steps of 5)

108 half-cut cells: CHSM54M(DG)/F-BH-xxx (xxx=390-420, in steps of 5)

108 half-cut cells: CHSM54M(DG)/F-HC-xxx (xxx=405-425, in steps of 5)

108 half-cut cells: CHSM54M(DGT)-BH-xxx (xxx=380-420, in steps of 5)

108 half-cut cells: CHSM54M(DGT)/F-BH-xxx (xxx=380-420, in steps of 5)

110 half-cut cells: CHSM55M(DG)/F-BH-xxx (xxx=530-565, in steps of 5)

100 half-cut cells: CHSM50M(DG)/F-BH-xxx (xxx=485-510, in steps of 5)

132 half-cut cells: CHSM66N(DG)/F-BH-xxx (xxx=650-725, in steps of 5)

120 half-cut cells: CHSM60N(DG)/F-BH-xxx (xxx=440-505, 595-630, in steps of 5)

120 half-cut cells: CHSM60N(DG)/F-HC-xxx (xxx=460-505, in steps of 5)

120 half-cut cells: CHSM60N(DGT)/F-BH-xxx (xxx=440-500, in steps of 5)

156 half-cut cells: CHSM78N(DG)/F-BH-xxx (xxx=580-660, in steps of 5)

144 half-cut cells: CHSM72N(DG)/F-BH-xxx (xxx=535-610, in steps of 5)

144 half-cut cells: CHSM72N(DG)/F-HC-xxx (xxx=550-610 in steps of 5)

144 half-cut cells: CHSM72N(DGT)/F-BH-xxx (xxx=525-600, in steps of 5)

108 half-cut cells: CHSM54N(DG)/F-BH-xxx (xxx=405-455, in steps of 5)

108 half-cut cells: CHSM54N(DG)/F-HC-xxx (xxx=415-455, in steps of 5)

108 half-cut cells: CHSM54N(DGT)/F-BH-xxx (xxx=395-450, in steps of 5)

108 half-cut cells: CHSM54N(DGT)(BLH)/F-BH-xxx (xxx=395-450, in steps of 5)

96 half-cut cells: CHSM48N(DGT)/F-BH-xxx (xxx=345-400, in steps of 5)

96 half-cut cells: CHSM48M(DGT)/F-BH-xxx (xxx=340-370, in steps of 5)

144 half-cut cells: CHSM72RN(DG)/F-BH-xxx (xxx=580-625, in steps of 5)

108 half-cut cells: CHSM54RN(DG)/F-BH-xxx (xxx=435-465,495-530, in steps of 5)

156 half-cut cells: CHSM78N(DG)/F-HC-xxx (xxx=590-665, in steps of 5)

156 half-cut cells: CHSM78M(DG)/F-HC-xxx (xxx=580-615, in steps of 5)

108 half-cut cells: CHSM54RNs(DG)/F-BH-xxx (xxx=430-460, in steps of 5)

108 half-cut cells: CHSM54RNs(DG)(BLH)/F-BH-xxx (xxx=425-455, in steps of 5)

132 half-cut cells: CHSM66RN(DG)/F-BH-xxx (xxx=585-650, in steps of 5)

132 half-cut cells: CHSM66RN(DG)/F-HC-xxx (xxx=585-625, in steps of 5)

108 half-cut cells: CHSM54RNs(DGT)(BLH)/F-BH-xxx (xxx=425-460, in steps of 5)

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	108 half-cut cells: CHSM54RNs(DGT)/F-BH-xxx (xxx=430-460, in steps of 5)
	108 half-cut cells: CHSM54RNs(DG)/F-HC-xxx (xxx=430-460, in steps of 5)
	144 half-cut cells: CHSM72RN(DG)/F-HC-xxx (xxx=580-630, in steps of 5)
	108 half-cut cells: CHSM54RN(DG)/F-HC-xxx (xxx=440-470, in steps of 5)
	120 half-cut cells: CHSM60RNs(DG)/F-BH-xxx (xxx=475-515, in steps of 5)
	120 half-cut cells: CHSM60RNs(DGT)(BLH)/F-BH-xxx (xxx=480-515, in steps of 5)
	120 half-cut cells: CHSM60RNs(DG)(BLH)/F-BH-xxx (xxx=480-515, in steps of 5)
	108 half-cut cells:CHSM54RN(DGT)(BLH)/F-BH-xxx (xxx=495-525, in steps of 5)
	96 half-cut cells:CHSM48RN(DG)/F-BH-xxx (xxx=440-470, in steps of 5)
	96 half-cut cells:CHSM48RN(DG)(BLH)/F-BH-xxx (xxx=440-465, in steps of 5)
	96 half-cut cells:CHSM48RN(DGT)(BLH)/F-BH-xxx (xxx=440-465, in steps of 5)
	156 half-cut cells:CHSM78N(DG)/F-BH-IA-xxx(xxx=580-660, in steps of 5)
	144 half-cut cells:CHSM72N(DG)/F-BH-IA-xxx(xxx=535-610, in steps of 5)
	156 half-cut cells:CHSM78RN(DG)/F-BH-xxx(xxx=710-745, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	20A or 30A or 35A
Application class:	Class A
Electrical protection class:	Class II

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

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