

ist Hersteller und verantwortlich für:

Konformitätserklärung / Declaration of Conformity

Produkt-Typ:	Plug & Play Photovoltaik-Set für Netzparallelbetrieb steckbar mittels Haushaltsstecker in Endstromkreis
Modell:	900 Wp Plug & Play (CN), 2 Panels / Hoymiles
Komponenten:	• 2x Trina 450NEG9R / 450 Wp / IP-67 / Schutzklasse II • 1x Hoymiles HMS-600W-2T mit N/A Schutz und eingebauter RCMU / IP67 Schutzart / Schutzklasse II / Input max. 60VDC, Output max. 230VAC, 50-60Hz, 600VA, 2,61A • 1x Anschlusskabel vorkonfektioniert mit Betteri Buchse IP67, 5m, 10m, 15m oder 20m / 3x1,5mm² Leitung / AC Seitig CH-Typ 13 Stecker IP 55

Konform nach ESTI-Mitteilung 07/2014 und in Übereinstimmung mit der Verordnung über elektrische Niederspannungserzeugnisse (NEV; SR 734.26) (Stand 05.05.2025).

Dazu angewandte Normen:

Trina Vertex S+ TSM-450NEG9R.28 Doppelglas	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 61730-1:2018/AC:2018-06, EN IEC 61730-2:2018, EN IEC 61730-2:2018/AC:2018-06
Hoymiles HMS-600W-2T	VDE-ARN-N 4105: 2018-11, VDE V 0124-100:2020-06 & EN50549-1:2019, VFR 2019 IEC/ EN 62109-1:2010/-2:2011, IEC/EN 61000-6-1:2019;EN 61000-6-2:2000; EN 61000-6-3:2007+A1:2011; EN 61000-6-4:2019; EN 61000-3-2:2019; EN 61000-3-3:2013+A1:2019, IEC/EN 62311:2008 NEMA (IP67) Gehäuse; 6000 V Stromstosschutz
Hoymiles Anschlusskabel vorkonfektioniert in 5m, 10m, 15m oder 20m	Betteri Buchse Wechselrichterseite, Schutzart IEC EN 60529 IP67, Anschlusskabel 5m oder 10m H07RN-F, EN 50525-2-21: 2011, Stecker CH Typ 13: IEC 60884-1 (Ed 4.0): 2022 / SN 441011-1: 2019 +Corr2019 / SN 441011-2-1:2021, IP55
ROHS Konformität	Gesamtes Set konform gemäss IEC EN 63000: 2018

Michael Sebel, Geschäftsführung
erneuer.bar services GmbH



900 Wp Plug & Play (CN), 2 Panels / Hoymiles / Version 1.0 / Datum: 05.05.2025

460 W

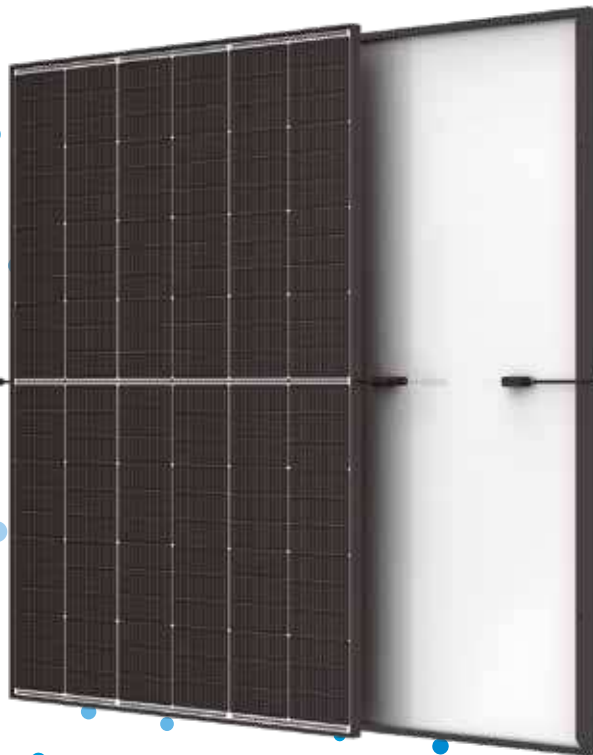
MAXIMALE NENNLEISTUNG

0/+5 W

POSITIVE LEISTUNGSTOLERANZ

23,0 %

MAXIMALER WIRKUNGSGRAD



Kleine Maße, große Leistung

- Bis zu 430 W Spitzenleistung, 23,0 % Modulwirkungsgrad mit High-Density-Zellverbindungstechnologie
- Multi-Busbar-Technologie für mehr Absorption, geringeren Serienwiderstand, verbesserte Stromableitung und erhöhte Zuverlässigkeit
- Geringere Montagekosten bei erhöhter Leistung und Effizienz



Doppelglas für max. Zuverlässigkeit

- Ausgezeichnete Beständigkeit gegen Feuer und bei schwierigen Umweltbedingungen
- 5.400 Pa Scheelast und 4.000 Pa Windlast (Testlasten)



Maximaler Ertrag

- 25 Jahre Produktgarantie auf die Verarbeitung und 30 Jahre Leistungsgarantie
- N-typ Technologie mit 1 % Degradation im ersten Jahr und 0,4 % in den Jahren 2-30



Universelle Lösung für Wohn- und Gewerbedächer

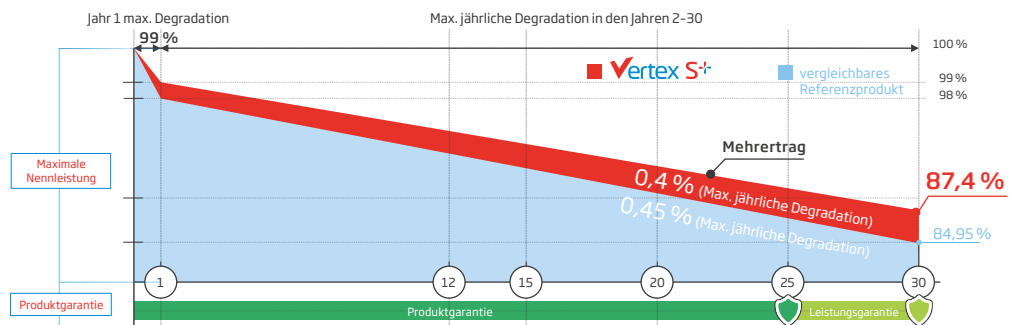
- Hohe Kompatibilität mit verfügbaren Wechselrichtern, Optimizern und Montagesystemen
- Leichte Handhabung durch perfekte Größe und geringes Gewicht. Optimierte Transportkosten
- Flexible Installationslösungen für den Systemeinsatz

Erweiterte Garantie für Vertex S+

1 %
Max. Degradation in Jahr 1

0,4 %
Max. jährliche Degradation in den Jahren 2-30

25 Jahre
Produktgarantie

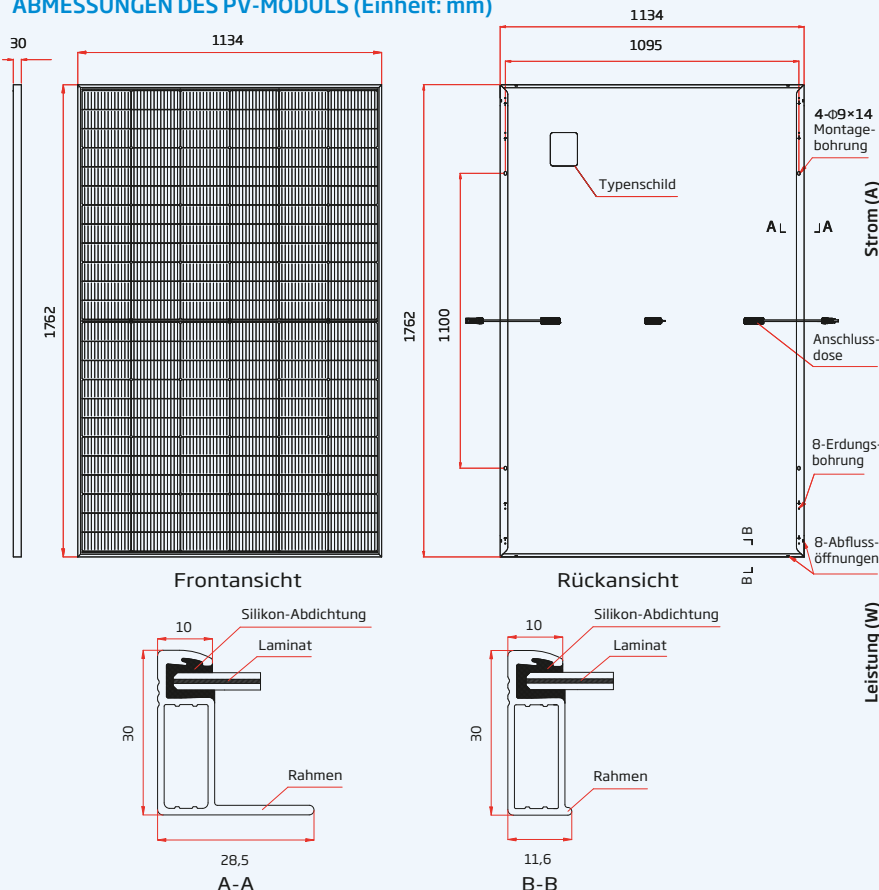


Umfassende Produkt- und Systemzertifikate

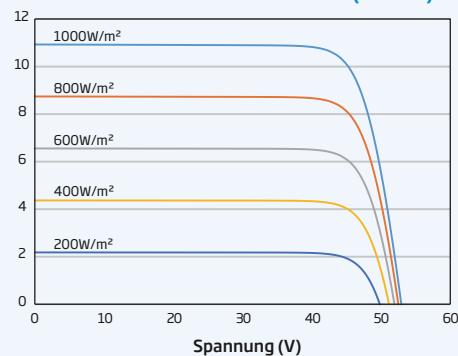


IEC61215/IEC61730/IEC61701/IEC62716
 ISO 9001: Qualitätsmanagementsystem
 ISO 14001: Umweltmanagementsystem
 ISO14064: Verifizierung der CO₂-Bilanz
 ISO45001: Arbeitsschutzmanagementsystem
 ISO 14067: Carbon Footprint von Produkten
 ISO 14025: Umweltproduktdeklaration

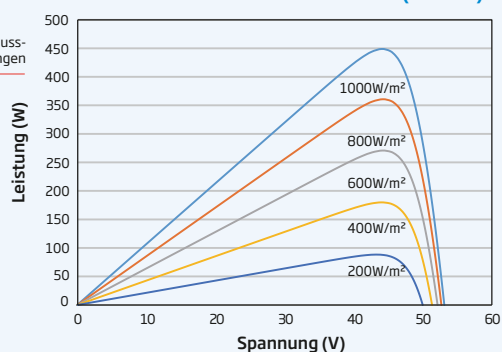
ABMESSUNGEN DES PV-MODULS (Einheit: mm)



I-V KURVEN DES PV-MODULS (450 W)



P-V KURVEN DES PV-MODULS (450 W)



ELEKTRISCHE DATEN (STC)

TSM-430 TSM-435 TSM-440 TSM-445 TSM-450 TSM-455 TSM-460
NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28

Nominalleistung- P_{MAX} (Wp)*	430	435	440	445	450	455	460
Leistungstoleranz- P_{MAX} (W)				0/+5			
Spannung im MPP- U_{MPP} (V)	43,2	43,6	44,0	44,3	44,6	45,0	45,4
Strom im MPP- I_{MPP} (A)	9,96	9,99	10,01	10,05	10,09	10,11	10,14
Leerlaufspannung- U_{OC} (V)	51,4	51,8	52,2	52,6	52,9	53,4	53,8
Kurzschlussstrom- I_{SC} (A)	10,59	10,64	10,67	10,71	10,74	10,77	10,81
Modulwirkungsgrad η_m (%)	21,5	21,8	22,0	22,3	22,5	22,8	23,0

STC: Einstrahlung 1000 W/m², Zelltemperatur 25 °C, Spektrale Verteilung von AM 1.5. *Messtoleranz: ±3 %.

ELECTRICAL DATA (NOCT)

TSM-430 TSM-435 TSM-440 TSM-445 TSM-450 TSM-455 TSM-460
NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28 NEG9R.28

Nominalleistung- P_{MAX} (Wp)	329	333	337	341	344	348	352
Spannung im MPP- U_{MPP} (V)	40,7	41,0	41,4	41,7	42,0	42,3	42,7
Strom im MPP- I_{MPP} (A)	8,08	8,12	8,14	8,17	8,19	8,22	8,25
Leerlaufspannung- U_{OC} (V)	48,7	49,1	49,5	49,9	50,2	50,6	51,0
Kurzschlussstrom- I_{SC} (A)	8,54	8,58	8,60	8,63	8,66	8,68	8,71

NOCT: Einstrahlung 800 W/m², Umgebungstemperatur 20 °C, Windgeschwindigkeit 1 m/s.

MECHANISCHE DATEN

Solarzellen	N-Typ i-TOPCon Modul
Zellanordnung	144 Zellen
Modulmaße	1762×1134×30 mm
Gewicht	21,0 kg
Glas	1,6 mm, hochtransparentes, anti-reflexbeschichtetes hitzevorgespanntes Glas
Rückseite	1,6 mm, Hitzevorgespanntes Glas
Rahmen	30 mm eloxierte Aluminiumlegierung, Schwarz
Anschlussdose	IP 68
Kabel	Photovoltaikkabel: 4,0 mm² Hochformat: 1100/1100 mm Querformat: 280/350 mm*
Stecker	TS4 / MC4 EV02*

*Nur auf Bestellung.

TEMPERATURWERTE

NOCT (Nennbetriebstemperatur der Zelle)	43°C (±2°C)
Temperaturkoeffizient von P_{MAX}	-0,29%/°C
Temperaturkoeffizient von V_{OC}	-0,24%/°C
Temperaturkoeffizient von I_{SC}	0,04%/°C

EINSATZBEREICH

Betriebstemperatur	-40 to +85 °C
Maximale Systemspannung	1500 V DC (IEC)
Maximale Absicherung	25 A

GARANTIE

25 Jahre Produktgarantie auf die Verarbeitung
30 Jahre Leistungsgarantie
1 % max. Degradation im ersten Jahr
0,4 % max. jährliche Degradation

(Nähere Details finden Sie in den Bedingungen der beschränkten Garantie)

VERPACKUNGSEINHEITEN

Module pro Karton:	36 Stck.
Module pro 40-Fuß-Container:	936 Stck.

DECLARATION OF CONFORMITY

Holder of Declaration: Trina Solar Co., Ltd.

Address: No.2 TianHe Road, Trina PV Industrial Park, New District, Changzhou City, Jiangsu Province
213031, P. R. China.

Brand Name: Trina Solar

We, Trina Solar Co., Ltd. hereby declare that the product (s):

Product: Mono/Poly Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Type Designation:

➤ Backsheet Module System Voltage: 1500V DC

TSM-xxxPE14A, TSM-xxxPE14A.08, TSM-xxxPE14A.09, TSM-xxxPE14A(II), TSM-xxxPE14A.08(II),
TSM-xxxPE14A.09(II), TSM-xxxPE14A.T0, TSM-xxxPE14A.T8, TSM-xxxPE14A.T9, TSM-xxxPE14A.T0(II),
TSM-xxxPE14A.T8(II), TSM-xxxPE14A.T9(II), (xxx=305-360, in steps of 5);

TSM-xxxPE05A, TSM-xxxPE05A.08, TSM-xxxPE05A.09, TSM-xxxPE05A(II), TSM-xxxPE05A.08(II),
TSM-xxxPE05A.09(II), TSM-xxxPE05A.T0, TSM-xxxPE05A.T8, TSM-xxxPE05A.T9,
TSM-xxxPE05A.T0(II), TSM-xxxPE05A.T8(II), TSM-xxxPE05A.T9(II), (xxx=255-300, in steps of 5);

TSM-xxxPE14B, TSM-xxxPE14B.08, TSM-xxxPE14B.09, TSM-xxxPE14B(II), TSM-xxxPE14B.08(II),
TSM-xxxPE14B.09(II), TSM-xxxPE14B.T0, TSM-xxxPE14B.T8, TSM-xxxPE14B.T9,
TSM-xxxPE14B.T0(II), TSM-xxxPE14B.T8(II), TSM-xxxPE14B.T9(II), (xxx=305-360, in steps of 5);

TSM-xxxPE15B, TSM-xxxPE15B.08, TSM-xxxPE15B.09, TSM-xxxPE15B(II), TSM-xxxPE15B.08(II),
TSM-xxxPE15B.09(II), TSM-xxxPE15B.T0, TSM-xxxPE15B.T8, TSM-xxxPE15B.T9,
TSM-xxxPE15B.T0(II), TSM-xxxPE15B.T8(II), TSM-xxxPE15B.T9(II), (xxx=305-360, in steps of 5);

TSM-xxxPE15A, TSM-xxxPE15A.08, TSM-xxxPE15A.09, TSM-xxxPE15A(II), TSM-xxxPE15A.08(II),
TSM-xxxPE15A.09(II), TSM-xxxPE15A.T0, TSM-xxxPE15A.T8, TSM-xxxPE15A.T9, TSM-xxxPE15A.T0(II),
TSM-xxxPE15A.T8(II), TSM-xxxPE15A.T9(II), (xxx=305-360, in steps of 5);

TSM-xxxPE06A, TSM-xxxPE06A.08, TSM-xxxPE06A.09, TSM-xxxPE06A(II), TSM-xxxPE06A.08(II),
TSM-xxxPE06A.09(II), TSM-xxxPE06A.T0, TSM-xxxPE06A.T8, TSM-xxxPE06A.T9,
TSM-xxxPE06A.T0(II), TSM-xxxPE06A.T8(II), TSM-xxxPE06A.T9(II), (xxx=255-300, in steps of 5);

TSM-xxxPE15HB, TSM-xxxPE15HB.08, TSM-xxxPE15HB.09, TSM-xxxPE15HB(II), TSM-xxxPE15HB.08(II),
TSM-xxxPE15HB.09(II), TSM-xxxPE15HB.T0, TSM-xxxPE15HB.T8, TSM-xxxPE15HB.T9,
TSM-xxxPE15HB.T0(II), TSM-xxxPE15HB.T8(II), TSM-xxxPE15HB.T9(II),
(xxx=320-390, in steps of 5);

TSM-xxxDE14A(II), TSM-xxxDE14A.08(II), TSM-xxxDE14A.09(II), TSM-xxxDE14A.T0(II),
TSM-xxxDE14A.T8(II), TSM-xxxDE14A.T9(II), TSM-xxxDE14A.05(II), (xxx=330-390, in steps of 5);

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TSM-xxxDE05A(II), TSM-xxxDE05A.08(II), TSM-xxxDE05A.09(II), TSM-xxxDE05A.T0(II),
TSM-xxxDE05A.T8(II), TSM-xxxDE05A.T9(II), TSM-xxxDE05A.05(II), (xxx=275-325, in steps of 5);

TSM-xxxDE14B(II), TSM-xxxDE14B.08(II), TSM-xxxDE14B.09(II), TSM-xxxDE14B.T0(II),
TSM-xxxDE14B.T8(II), TSM-xxxDE14B.T9(II), TSM-xxxDE14B.05(II), (xxx=330-385, in steps of 5);

TSM-xxxDE15B(II), TSM-xxxDE15B.08(II), TSM-xxxDE15B.09(II), TSM-xxxDE15B.T0(II),
TSM-xxxDE15B.T8(II), TSM-xxxDE15B.T9(II), TSM-xxxDE15B.05(II), (xxx=330-385, in steps of 5);

TSM-xxxDE15A(II), TSM-xxxDE15A.08(II), TSM-xxxDE15A.09(II), TSM-xxxDE15A.T0(II),
TSM-xxxDE15A.T8(II), TSM-xxxDE15A.T9(II), TSM-xxxDE15A.08(II), TSM-xxxDE15A.05(II),
(xxx=330-385, in steps of 5);

TSM-xxxDE06A(II), TSM-xxxDE06A.08(II), TSM-xxxDE06A.09(II), TSM-xxxDE06A.T0(II),
TSM-xxxDE06A.T8(II), TSM-xxxDE06A.T9(II), TSM-xxxDE06A.05(II), (xxx=275-325, in steps of 5);

TSM-xxxDE15HB(II), TSM-xxxDE15HB.08(II), TSM-xxxDE15HB.09(II), TSM-xxxDE15HB.T0(II),
TSM-xxxDE15HB.T8(II), TSM-xxxDE15HB.T9(II), TSM-xxxDE15HB.05(II),
(xxx=330-425, in steps of 5);

TSM-xxxPE14H, TSM-xxxPE14H.08, TSM-xxxPE14H.09, TSM-xxxPE14H(II), TSM-xxxPE14H.08(II),
TSM-xxxPE14H.09(II), TSM-xxxPE14H.T0, TSM-xxxPE14H.T8, TSM-xxxPE14H.T9,
TSM-xxxPE14H.T0(II), TSM-xxxPE14H.T8(II), TSM-xxxPE14H.T9(II), (xxx=320-360, in steps of 5);

TSM-xxxPE05H, TSM-xxxPE05H.08, TSM-xxxPE05H.09, TSM-xxxPE05H(II), TSM-xxxPE05H.08(II),
TSM-xxxPE05H.09(II), TSM-xxxPE05H.T0, TSM-xxxPE05H.T8, TSM-xxxPE05H.T9,
TSM-xxxPE05H.T0(II), TSM-xxxPE05H.T8(II), TSM-xxxPE05H.T9(II), (xxx=270-300, in steps of 5);

TSM-xxxPE14HB, TSM-xxxPE14HB.08, TSM-xxxPE14HB.09, TSM-xxxPE14HB(II),
TSM-xxxPE14HB.08(II), TSM-xxxPE14HB.09(II), TSM-xxxPE14HB.T0, TSM-xxxPE14HB.T8,
TSM-xxxPE14HB.T9, TSM-xxxPE14HB.T0(II), TSM-xxxPE14HB.T8(II), TSM-xxxPE14HB.T9(II),
(xxx=320-360, in steps of 5);

TSM-xxxPE15H, TSM-xxxPE15H.08, TSM-xxxPE15H.09, TSM-xxxPE15H(II), TSM-xxxPE15H.08(II),
TSM-xxxPE15H.09(II), TSM-xxxPE15H.T0, TSM-xxxPE15H.T8, TSM-xxxPE15H.T9, TSM-xxxPE15H.T0(II),
TSM-xxxPE15H.T8(II), TSM-xxxPE15H.T9(II), (xxx=320-405, in steps of 5);

TSM-xxxPE06H, TSM-xxxPE06H.08, TSM-xxxPE06H.09, TSM-xxxPE06H(II), TSM-xxxPE06H.08(II),
TSM-xxxPE06H.09(II), TSM-xxxPE06H.T0, TSM-xxxPE06H.T8, TSM-xxxPE06H.T9, TSM-xxxPE06H.T0(II),
TSM-xxxPE06H.T8(II), TSM-xxxPE06H.T9(II), (xxx=270-335, in steps of 5);

TSM-xxxPE15M, TSM-xxxPE15M.08, TSM-xxxPE15M.09, TSM-xxxPE15M(II), TSM-xxxPE15M.08(II),
TSM-xxxPE15M.09(II), TSM-xxxPE15M.T0, TSM-xxxPE15M.T8, TSM-xxxPE15M.T9,
TSM-xxxPE15M.T0(II), TSM-xxxPE15M.T8(II), TSM-xxxPE15M.T9(II), (xxx=320-405, in steps of 5);

TSM-xxxPE06M, TSM-xxxPE06M.08, TSM-xxxPE06M.09, TSM-xxxPE06M(II), TSM-xxxPE06M.08(II),
TSM-xxxPE06M.09(II), TSM-xxxPE06M.T0, TSM-xxxPE06M.T8, TSM-xxxPE06M.T9,
TSM-xxxPE06M.T0(II), TSM-xxxPE06M.T8(II), TSM-xxxPE06M.T9(II), (xxx=270-335, in steps of 5);

TSM-xxxDE14H(II), TSM-xxxDE14H.08(II), TSM-xxxDE14H.09(II), TSM-xxxDE14H.T0(II),
TSM-xxxDE14H.T8(II), TSM-xxxDE14H.T9(II), TSM-xxxDE14H.05(II), (xxx=330-395, in steps of 5);

TSM-xxxDE05H(II), TSM-xxxDE05H.08(II), TSM-xxxDE05H.09(II), TSM-xxxDE05H.T0(II),
TSM-xxxDE05H.T8(II), TSM-xxxDE05H.T9(II), TSM-xxxDE05H.05(II), (xxx=275-335, in steps of 5);

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TSM-xxxDE14HB(II), TSM-xxxDE14HB.08(II), TSM-xxxDE14HB.09(II), TSM-xxxDE14HB.T0(II), TSM-xxxDE14HB.T8(II), TSM-xxxDE14HB.T9(II), TSM-xxxDE14HB.05(II), (xxx=330-395, in steps of 5);

TSM-xxxDE15H(II), TSM-xxxDE15H.08(II), TSM-xxxDE15H.09(II), TSM-xxxDE15H.T0(II), TSM-xxxDE15H.T8(II), TSM-xxxDE15H.T9(II), TSM-xxxDE15H.05(II), (xxx=330-425, in steps of 5);

TSM-xxxDE06H(II), TSM-xxxDE06H.08(II), TSM-xxxDE06H.09(II), TSM-xxxDE06H.T0(II), TSM-xxxDE06H.T8(II), TSM-xxxDE06H.T9(II), TSM-xxxDE06H.05(II), (xxx=275-350, in steps of 5);

TSM-xxxDE15M(II), TSM-xxxDE15M.08(II), TSM-xxxDE15M.09(II), TSM-xxxDE15M.T0(II), TSM-xxxDE15M.T8(II), TSM-xxxDE15M.T9(II), TSM-xxxDE15M.05(II), (xxx=330-420, in steps of 5);

TSM-xxxDE06M(II), TSM-xxxDE06M.08(II), TSM-xxxDE06M.09(II), TSM-xxxDE06M.T0(II), TSM-xxxDE06M.T8(II), TSM-xxxDE06M.T9(II), TSM-xxxDE06M.05(II), (xxx=275-350, in steps of 5);

TSM-xxxDE17M(II), TSM-xxxDE17M.08(II), TSM-xxxDE17M.09(II), TSM-xxxDE17M.T0(II), TSM-xxxDE17M.T8(II), TSM-xxxDE17M.T9(II), TSM-xxxDE17M.05(II), (xxx=390-465, in steps of 5);

TSM-xxxDE08M(II), TSM-xxxDE08M.08(II), TSM-xxxDE08M.09(II), TSM-xxxDE08M.T0(II), TSM-xxxDE08M.T8(II), TSM-xxxDE08M.T9(II), TSM-xxxDE08M.05(II), (xxx=335-385, in steps of 5);

TSM-xxxDE15X(II), TSM-xxxDE15X.08(II), TSM-xxxDE15X.09(II), TSM-xxxDE15X.T0(II), TSM-xxxDE15X.T8(II), TSM-xxxDE15X.T9(II), TSM-xxxDE15X.05(II), (xxx=405-435, in steps of 5);

TSM-xxxDE06X(II), TSM-xxxDE06X.08(II), TSM-xxxDE06X.09(II), TSM-xxxDE06X.T0(II), TSM-xxxDE06X.T8(II), TSM-xxxDE06X.T9(II), TSM-xxxDE06X.05(II), (xxx=345-375, in steps of 5);

TSM-xxxNE15X(II), TSM-xxxNE15X.08(II), TSM-xxxNE15X.09(II), TSM-xxxNE15X.T8(II), TSM-xxxNE15X.T9(II), TSM-xxxNE15X.05(II), TSM-xxxNE15X.T0(II), (xxx=405-435, in steps of 5);

TSM-xxxNE06X(II), TSM-xxxNE06X.08(II), TSM-xxxNE06X.09(II), TSM-xxxNE06X.T0(II), TSM-xxxNE06X.T8(II), TSM-xxxNE06X.T9(II), TSM-xxxNE06X.05(II), (xxx=345-390, in steps of 5);

TSM-xxxPE17M, TSM-xxxPE17M.08, TSM-xxxPE17M.09, TSM-xxxPE17M(II), TSM-xxxPE17M.08(II), TSM-xxxPE17M.09(II), TSM-xxxPE17M.T0, TSM-xxxPE17M.T8, TSM-xxxPE17M.T9, TSM-xxxPE17M.T0(II), TSM-xxxPE17M.T8(II), TSM-xxxPE17M.T9(II), (xxx=320-445, in steps of 5);

TSM-xxxPE08M, TSM-xxxPE08M.08, TSM-xxxPE08M.09, TSM-xxxPE08M(II), TSM-xxxPE08M.08(II), TSM-xxxPE08M.09(II), TSM-xxxPE08M.T0, TSM-xxxPE08M.T8, TSM-xxxPE08M.T9, TSM-xxxPE08M.T0(II), TSM-xxxPE08M.T8(II), TSM-xxxPE08M.T9(II), (xxx=270-365, in steps of 5);

TSM-xxxDE18M(II), TSM-xxxDE18M.08(II), TSM-xxxDE18M.09(II), TSM-xxxDE18M.T0(II), TSM-xxxDE18M.T8(II), TSM-xxxDE18M.T9(II), TSM-xxxDE18M.05(II), TSM-xxxDE18M.B0(II), TSM-xxxDE18M.B5(II), TSM-xxxDE18M.B8(II), TSM-xxxDE18M.60(II), TSM-xxxDE18M.68(II), TSM-xxxDE18M.00S(II), TSM-xxxDE18M.08S(II), TSM-xxxDE18M.68S(II), (xxx=470-520, in steps of 5);

TSM-xxxDE17X(II), TSM-xxxDE17X.08(II), TSM-xxxDE17X.09(II), TSM-xxxDE17X.T8(II), TSM-xxxDE17X.T9(II), TSM-xxxDE17X.05(II), TSM-xxxDE17X.T0(II), (xxx=450-485, in steps of 5);

TSM-xxxDE171H(II), (xxx=315-350, in steps of 5);

TSM-xxxDE09, TSM-xxxDE09.08, TSM-xxxDE09.09, TSM-xxxDE09.05, TSM-xxxDE09.T0, TSM-xxxDE09.T8, TSM-xxxDE09.T9, TSM-xxxDE09C.05, TSM-xxxDE09C.07, TSM-xxxDE09.B0, TSM-xxxDE09.B5, TSM-xxxDE09.B8, TSM-xxxDE09.00S, TSM-xxxDE09.05S, TSM-xxxDE09.08S, (xxx=375-415, in steps of 5)

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TSM-xxxNE06M(II), TSM-xxxNE06M.08(II), TSM-xxxNE06M.09(II), TSM-xxxNE06M.T0(II),
TSM-xxxNE06M.T8(II), TSM-xxxNE06M.T9(II), TSM-xxxNE06M.05(II), (xxx=315-355, in steps of 5)

TSM-xxxNE07M(II), TSM-xxxNE07M.08(II), TSM-xxxNE07M.09(II), TSM-xxxNE07M.T0(II), TSM-
xxxNE07M.T8(II), TSM-xxxNE07M.T9(II), TSM-xxxNE07M.05(II), (xxx=315-335, in steps of 5)

TSM-xxxNE15M (II), TSM-xxxNE15M.08(II), TSM-xxxNE15M.09(II), TSM-xxxNE15M.T0(II), TSM-
xxxNE15M.T8(II), TSM-xxxNE15M.T9(II), TSM-xxxNE15M.05(II), (xxx=375-430, in steps of 5)

TSM-xxxNE16M (II), TSM-xxxNE16M.08(II), TSM-xxxNE16M.09(II), TSM-xxxNE16M.T0(II), TSM-
xxxNE16M.T8(II), TSM-xxxNE16M.T9(II), TSM-xxxNE16M.05(II), (xxx=375-405, in steps of 5)

TSM-xxxDE20, TSM-xxxDE20.05, TSM-xxxDE20.08, TSM-xxxDE20.09, TSM-xxxDE20.T0,
TSM-xxxDE20.T8, TSM-xxxDE20.T9, TSM-xxxDE20.B0, TSM-xxxDE20.B5, TSM-xxxDE20.B8,
TSM-xxxDE20.60, TSM-xxxDE20.68, TSM-xxxDE20.00S, TSM-xxxDE20.60S,
TSM-xxxDE20.68S, TSM-xxxDE20.70, TSM-xxxDE20.W (xxx=575-615, in steps of 5);

TSM-xxxDE19, TSM-xxxDE19.05, TSM-xxxDE19.08, TSM-xxxDE19.09, TSM-xxxDE19.T0,
TSM-xxxDE19.T8, TSM-xxxDE19.T9, TSM-xxxDE19.B0, TSM-xxxDE19.B5, TSM-xxxDE19.B8,
TSM-xxxDE19.60, TSM-xxxDE19.68, TSM-xxxDE19.00S, TSM-xxxDE19.60S, TSM-
xxxDE19.68S, (xxx=500-560, in steps of 5);

TSM-xxxDE18, TSM-xxxDE18.05, TSM-xxxDE18.08, TSM-xxxDE18.09, TSM-xxxDE18.T0,
TSM-xxxDE18.T8, TSM-xxxDE18.T9, TSM-xxxDE18.60, TSM-xxxDE18C(xxx=515-560, in steps of 5);

TSM-xxxDE10, TSM-xxxDE10.05, TSM-xxxDE10.08, TSM-xxxDE10.09, TSM-xxxDE10.T0,
TSM-xxxDE10.T8, TSM-xxxDE10.T9, (xxx=430-455, in steps of 5);

TSM-xxxDE15V(II), TSM-xxxDE15V.08(II), TSM-xxxDE15V.09(II), TSM-xxxDE15V.T0(II), TSM-
xxxDE15V.T8(II), TSM-xxxDE15V.T9(II), TSM-xxxDE15V.05(II), (xxx=465-490, in steps of 5)

TSM-xxxDE15MB(II), TSM-xxxDE15MB.08(II), TSM-xxxDE15MB.09(II), TSM-xxxDE15MB.10(II),
TSM-xxxDE15MB.18(II), TSM-xxxDE15MB.T0(II), TSM-xxxDE15MB.T8(II), TSM-xxxDE15MB.T9(II),
TSM-xxxDE15MB.05(II), (xxx=330-420, in steps of 5)

TSM-xxxDE21, TSM-xxxDE21.05, TSM-xxxDE21.08, TSM-xxxDE21.09, TSM-xxxDE21.T0,
TSM-xxxDE21.T8, TSM-xxxDE21.T9, TSM-xxxDE21.60, TSM-xxxDE21.68, TSM-xxxDE21.00S,
TSM-xxxDE21.60S, TSM-xxxDE21.68S, TSM-xxxDE21.70 (xxx=635-680, in steps of 5)

TSM-xxxDE06XC (II), TSM-xxxDE06XC.08(II), TSM-xxxDE06XC.09(II), TSM-xxxDE06XC.05(II),
TSM-xxxDE06XC.07(II), (xxx=355-380, in steps of 5)

TSM-xxxNE21, TSM-xxxNE21.05, TSM-xxxNE21.08, TSM-xxxNE21.09, TSM-xxxNE21.T0,
TSM-xxxNE21.T8, TSM-xxxNE21.T9, (xxx=645-720, in steps of 5)

TSM-xxxNE18M(II), TSM-xxxNE18M.08(II), TSM-xxxNE18M.09(II), TSM- xxxNE18M.T0(II),
TSM-xxxNE18M.T8(II), TSM-xxxNE18M.T9(II), TSM-xxxNE18M.05(II), (xxx=490-530, in steps of 5)

TSM-xxxNE20, TSM-xxxNE20.05, TSM-xxxNE20.08, TSM-xxxNE20.09, TSM-xxxNE20.T0,
TSM-xxxNE20.T8, TSM-xxxNE20.T9, (xxx=590-655, in steps of 5)

TSM-xxxNE19, TSM-xxxNE19.05, TSM-xxxNE19.08, TSM-xxxNE19.09, TSM-xxxNE19.T0,
TSM-xxxNE19.T8, TSM-xxxNE19.T9, TSM-xxxNE19C, (xxx=540-560, in steps of 5)

TSM-xxxNE19R TSM-xxxNE19R.08 TSM-xxxNE19R.09 TSM-xxxNE19R.T0 TSM-xxxNE19R.T8,

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TSM-xxxNE19R.T9 TSM-xxxNE19R.05, (xxx=565-625, in steps of 5)

TSM-xxxNE09 ,TSM-xxxNE09.08 ,TSM-xxxNE09.09 ,TSM- xxxNE09.T0 ,TSM-xxxNE09.T8,
TSM-xxxNE09.T9 ,TSM-xxxNE09.05, (xxx=395-420, in steps of 5)

TSM-xxxDE21F ,TSM-xxxDE21F.08, TSM-xxxDE21F.09 ,TSM-xxxDE21F.T0 ,TSM-xxxDE21F.T8,
TSM-xxxDE21F.T9 ,TSM-xxxDE21F.05 ,(xxx=550-605, in steps of 5)

TSM-xxxDE19C, TSM-xxxDE19C.08 ,(xxx=500-560, in steps of 5)

TSM-xxxDE081M(II), TSM-xxxDE081M.08(II), TSM-xxxDE081M.09(II), TSM-xxxDE081M.T0(II),
TSM-xxxDE081M.T8(II), TSM-xxxDE081M.T9(II), TSM-xxxDE081M.05(II) ,
(xxx=265-295, in steps of 5)

TSM-xxxDE061M(II), TSMxxxDE061M(II).08(II) ,TSM-xxxDE061M.09(II) ,TSM-xxxDE061M.T0(II) ,
TSM-xxxDE061M.T8(II) ,TSM-xxxDE061M.T9(II) ,TSM-xxxDE061M.05(II) ,TSM-xxxDE061M.10(II),
TSM-xxxDE061M.18(II), (xxx=240-280, in steps of 5)

TSM-xxxDE151M(II) ,TSM-xxxDE151M.08(II), TSM-xxxDE151M.09(II), TSM-xxxDE151M.T0(II), TSM-
xxxDE151M.T8(II) ,TSM-xxxDE151M .T9(II) ,TSM-xxxDE151M .05(II), (xxx=300-350, in steps of 5)

TSM-xxxDE11, TSM-xxxDE11.08 ,TSM-xxxDE11.09 ,TSM-xxxDE11.T0 ,TSM-xxxDE11.T8 ,
TSM-xxxDE11.T9 ,TSM-xxxDE11.05, TSM-xxxDE11C, TSM-xxxDE11C.05 ,TSM-xxxDE11C.07,
(xxx=390-415, in steps of 5)

TSM-xxxDE09R, TSM-xxxDE09R.08, TSM-xxxDE09R.09 ,TSM-xxxDE09R.T0 ,TSM-xxxDE09R.T8,
TSM-xxxDE09R.T9, TSM-xxxDE09R.05, TSM-xxxDE09R.B0, TSM-xxxDE09R.B5, TSM-xxxDE09R.B8,
TSM-xxxDE09R.00S, TSM-xxxDE09R.08S, TSM-xxxDE09R.05S ,TSM-xxxDE09R.B0S ,TSM-xxxDE09R.B8S ,
TSM-xxxDE09R.B5S, (xxx=395-440, in steps of 5)

TSM-xxxPE14A.W, (xxx=305-345, in steps of 5); TSM-xxxDE19.W ,(xxx=500-560, in steps of 5);

TSM-xxxDE19R, TSM-xxxDE19R.08,TSM-xxxDE19R.09, TSM-xxxDE19R.T0, TSM-xxxDE19R.T8, TSM-
xxxDE19R.T9, TSM-xxxDE19R.05, TSM-xxxDE19R.00S, (xxx=550-605, in steps of 5)

TSM-xxxDE09.05W, TSM-xxxDE09.08W, (xxx=375-415, in steps of 5);

TSM-xxxDE09R.W, TSM-xxxDE09R.05W,TSM-xxxDE09R.08W,TSM-xxxDE09R.B5W,
TSM-xxxDE09R.B8W, TSM-xxxDE09R.B0W, (xxx=395-440, in steps of 5);

TSM-xxxDE18M.W(II), TSM-xxxDE18M.08W(II) , (xxx=470-520, in steps of 5);

TSM-xxxDE19R.W, TSM-xxxDE19R.B0, TSM-xxxDE19R.B5, TSM-xxxDE19R.B8, TSM-xxxDE19R.70
(xxx=550-605, in steps of 5);

TSM-xxxDE20.W, (xxx=575-610, in steps of 5);

TSM-xxxDE21.W, TSM-xxxDE21C ,TSM-xxxDE21C.05, TSM-xxxDE21C.07 (xxx=635-680, in steps of 5);

TSM-xxxNE09R ,TSM-xxxNE09R.05, TSM-xxxNE09R.08 ,TSM-xxxNE09R.B0 ,TSM-xxxNE09R.B5,
TSM-xxxNE09R.B8,(xxx=415-435, in steps of 5)

TSM-xxxNE09RC.05, TSM-xxxNE09RC.07, (xxx=365-440, in steps of 5);

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TSM-xxxJE09R; TSM-xxxJE09R.08(xxx=415-430, in steps of 5);

TSM-xxxDE18R, TSM-xxxDE18R.05, TSM-xxxDE18R.08, TSM-xxxDE18R.09, TSM-xxxDE18R.T0, TSM-xxxDE18R.T8, TSM-xxxDE18R.T9(xxx=450-495, in steps of 5)

➤ Backsheet Module System Voltage: 1000V DC

TSM-xxxPD14, TSM-xxxPD14.08, TSM-xxxPD14.09, TSM-xxxPD14(II), TSM-xxxPD14.08(II), TSM-xxxPD14.09(II), TSM-xxxPD14.T0, TSM-xxxPD14.T8, TSM-xxxPD14.T9, TSM-xxxPD14.T0(II), TSM-xxxPD14.T08(II), TSM-xxxPD14.T9(II), (xxx=305-360, in steps of 5)

TSM-xxxPD15, TSM-xxxPD15.08, TSM-xxxPD15.09, TSM-xxxPD15(II), TSM-xxxPD15.08(II), TSM-xxxPD15.09(II), TSM-xxxPD15.T0, TSM-xxxPD15.T8, TSM-xxxPD15.T9, TSM-xxxPD15.T0(II), TSM-xxxPD15.T8(II), TSM-xxxPD15.T9(II), (xxx=305-360, in steps of 5);

TSM-xxxPD05, TSM-xxxPD05.08, TSM-xxxPD05.09, TSM-xxxPD05(II), TSM-xxxPD05.08(II), TSM-xxxPD05.09(II), TSM-xxxPC05A, TSM-xxxPC05A.08, TSM-xxxPD05.T0, TSM-xxxPD05.T8, TSM-xxxPD05.T9, TSM-xxxPD05.T0(II), TSM-xxxPD05.T8(II), TSM-xxxPD05.T9(II), (xxx=255-300, in steps of 5);

TSM-xxxPD06, TSM-xxxPD06.08, TSM-xxxPD06.09, TSM-xxxPD06(II), TSM-xxxPD06.08(II), TSM-xxxPD06.09(II), TSM-xxxPC06A, TSM-xxxPC06A.08, TSM-xxxPD06.T0, TSM-xxxPD06.T8, TSM-xxxPD06.T9, TSM-xxxPD06.T0(II), TSM-xxxPD06.T8(II), TSM-xxxPD06.T9(II), (xxx=255-300, in steps of 5);

TSM-xxxDD14A(II), TSM-xxxDD14A.08(II), TSM-xxxDD14A.09(II), TSM-xxxDD14A.05(II), TSM-xxxDD14A.T0(II), TSM-xxxDD14A.T8(II), TSM-xxxDD14A.T9(II), (xxx=330-390, in steps of 5);

TSM-xxxDD15A(II), TSM-xxxDD15A.08(II), TSM-xxxDD15A.09(II), TSM-xxxDD15A.05(II),

TSM-xxxDD15A.T0(II), TSM-xxxDD15A.T8(II), TSM-xxxDD15A.T9(II), (xxx=330-385, in steps of 5);
TSM-xxxDD05A(II), TSM-xxxDD05A.08(II), TSM-xxxDD05A.09(II), TSM-xxxDC05A.08, TSM-xxxDD05A.05(II), TSM-xxxDC05A.05(II), TSM-xxxDD05A.T0(II), TSM-xxxDD05A.T8(II), TSM-xxxDD05A.T9(II), (xxx=275-325, in steps of 5);

TSM-xxxDD06A(II), TSM-xxxDD06A.08(II), TSM-xxxDD06A.09(II), TSM-xxxDC06A.08, TSM-xxxDD06A.05(II), TSM-xxxDC06A.05(II), TSM-xxxDD06A.T0(II), TSM-xxxDD06A.T8(II), TSM-xxxDD06A.T9(II), (xxx=275-325, in steps of 5);

TSM-xxxPD14.00U, TSM-xxxPD14.08U, TSM-xxxPD14.09U, TSM-xxxPD14.00U(II), TSM-xxxPD14.08U(II), TSM-xxxPD14.09U(II), (xxx=305-360, in steps of 5);

TSM-xxxPD05.00U, TSM-xxxPD05.08U, TSM-xxxPD05.09U, TSM-xxxPD05.00U(II), TSM-xxxPD05.08U(II), TSM-xxxPD05.09U(II), (xxx=255-300, in steps of 5);

TSM-xxxPD14B, TSM-xxxPD14B.08, TSM-xxxPD14B.09, TSM-xxxPD14B(II), TSM-xxxPD14B.08(II), TSM-xxxPD14B.09(II), TSM-xxxPD14B.T0, TSM-xxxPD14B.T8, TSM-xxxPD14B.T9, TSM-xxxPD14B.T0(II), TSM-xxxPD14B.T8(II), TSM-xxxPD14B.T9(II), (xxx=305-360, in steps of 5);

TSM-xxxPD15B, TSM-xxxPD15B.08, TSM-xxxPD15B.09, TSM-xxxPD15B(II), TSM-xxxPD15B.08(II), TSM-xxxPD15B.09(II), TSM-xxxPD15B.T0, TSM-xxxPD15B.T8, TSM-xxxPD15B.T9, TSM-xxxPD15B.T0(II), TSM-xxxPD15B.T8(II), TSM-xxxPD15B.T9(II), (xxx=305-360, in steps of 5);

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TSM-xxxDD14A.00U(II) , TSM-xxxDD14A.08U(II) , TSM-xxxDD14A.09U(II) ,
(xxx=330-380, in steps of 5);

TSM-xxxDD05A.00U(II) , TSM-xxxDD05A.08U(II) , TSM-xxxDD05A.09U(II) ,(xxx=275-315, in steps of 5);

TSM-xxxDD14B(II) , TSM-xxxDD14B.08(II) , TSM-xxxDD14B.09(II) , TSM-xxxDD14B.T0(II) , TSM-
xxxDD14B.T8(II) , TSM-xxxDD14B.T9(II) , (xxx=330-385, in steps of 5);

TSM-xxxDD15B(II) , TSM-xxxDD15B.08(II) , TSM-xxxDD15B.09(II) , TSM-xxxDD15B.T0(II) , TSM-
xxxDD15B.T8(II) , TSM-xxxDD15B.T9(II) , (xxx=330-385, in steps of 5);

TSM-xxxPD14H , TSM-xxxPD14H.08 , TSM-xxxPD14H.09 , TSM-xxxPD14H(II) , TSM-xxxPD14H.08(II) ,
TSM-xxxPD14H.09(II) , TSM-xxxPD14H.T0 , TSM-xxxPD14H.T8 , TSM-xxxPD14H.T9 , TSM-
xxxPD14H.T0(II) , TSM-xxxPD14H.T8(II) , TSM-xxxPD14H.T9(II) , (xxx=320-360, in steps of 5);

TSM-xxxPD15H , TSM-xxxPD15H.08 , TSM-xxxPD15H.09 , TSM-xxxPD15H(II) , TSM-xxxPD15H.08(II) ,
TSM-xxxPD15H.09(II) , TSM-xxxPD15H.T0 , TSM-xxxPD15H.T8 , TSM-xxxPD15H.T9 , TSM-
xxxPD15H.T0(II) , TSM-xxxPD15H.T8(II) , TSM-xxxPD15H.T9(II) , (xxx=320-405, in steps of 5);

TSM-xxxPD05H , TSM-xxxPD05H.08 , TSM-xxxPD05H.09 , TSM-xxxPD05H(II) , TSM-xxxPD05H.08(II) ,
TSM-xxxPD05H.09(II) , TSM-xxxPD05H.T0 , TSM-xxxPD05H.T8 , TSM-xxxPD05H.T9 , TSM-
xxxPD05H.T0(II) , TSM-xxxPD05H.T8(II) , TSM-xxxPD05H.T9(II) , (xxx=270-300, in steps of 5);

TSM-xxxPD06H.08 , TSM-xxxPD06H.09 , TSM-xxxPD06H(II) , TSM-xxxPD06H.08(II) , TSM-
xxxPD06H.09(II) , TSM-xxxPD06H.T0 , TSM-xxxPD06H.T8 , TSM-xxxPD06H.T9 , TSM-xxxPD06H.T0(II) ,
TSM-xxxPD06H.T8(II) , TSM-xxxPD06H.T9(II) , (xxx=270-335, in steps of 5);

TSM-xxxDD14H(II) , TSM-xxxDD14H.08(II) , TSM-xxxDD14H.09(II) , TSM-xxxDD14H.05(II) , TSM-
xxxDD14H.T0(II) , TSM-xxxDD14H.T8(II) , TSM-xxxDD14H.T9(II) , (xxx=330-395, in steps of 5);

TSM-xxxDD15H(II) , TSM-xxxDD15H.08(II) , TSM-xxxDD15H.09(II) , TSM-xxxDD15H.05(II) ,

TSM-xxxDD15H.T0(II) , TSM-xxxDD15H.T8(II) , TSM-xxxDD15H.T9(II) , (xxx=330-410, in steps of 5);

TSM-xxxDD05H(II) , TSM-xxxDD05H.08(II) , TSM-xxxDD05H.09(II) , TSM-xxxDD05H.05(II) , TSM-
xxxDD05H.T0(II) , TSM-xxxDD05H.T8(II) , TSM-xxxDD05H.09(II) , (xxx=275-335, in steps of 5);

TSM-xxxDD06H(II) , TSM-xxxDD06H.08(II) , TSM-xxxDD06H.09(II) , TSM-xxxDD06H.05(II) , TSM-
xxxDD06H.T0(II) , TSM-xxxDD06H.T8(II) , TSM-xxxDD06H.T9(II) , (xxx=275-340, in steps of 5);

TSM-xxxPD14HB , TSM-xxxPD14HB.08 , TSM-xxxPD14HB.09 , TSM-xxxPD14HB(II) , TSM-
xxxPD14HB.08(II) , TSM-xxxPD14HB.09(II) , TSM-xxxPD14HB.T0 , TSM-xxxPD14HB.T8 , TSM-
xxxPD14HB.T9 , TSM-xxxPD14HB.T0(II) , TSM-xxxPD14HB.T8(II) , TSM-xxxPD14HB.T9(II) ,
(xxx=320-360, in steps of 5);

TSM-xxxPD15HB , TSM-xxxPD15HB.08 , TSM-xxxPD15HB.09 , TSM-xxxPD15HB(II) , TSM-
xxxPD15HB.08(II) , TSM-xxxPD15HB.09(II) , TSM-xxxPD15HB.T0 , TSM-xxxPD15HB.T8 , TSM-
xxxPD15HB.T9 , TSM-xxxPD15HB.T0(II) , TSM-xxxPD15HB.T8(II) , TSM-xxxPD15HB.T9(II) ,
(xxx=320-360, in steps of 5);

TSM-xxxPD15M , TSM-xxxPD15M.08 , TSM-xxxPD15M.09 , TSM-xxxPD15M(II) , TSM-xxxPD15M.08(II) ,
TSM-xxxPD15M.09(II) , TSM-xxxPD15M.T , TSM-xxxPD15M.08 , TSM-xxxPD15M.09 , TSM-xxxPD15M(II) ,
TSM-xxxPD15M.08(II) , TSM-xxxPD15M.09(II) , (xxx=320-405, in steps of 5);

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TSM-xxxPD06M ,TSM-xxxPD06M.08 ,TSM-xxxPD06M.09 ,TSM-xxxPD06M(II) ,TSM-xxxPD06M.08(II) ,
TSM-xxxPD06M.09(II) ,TSM-xxxPD06M.T0 ,TSM-xxxPD06M.T8 ,TSM-xxxPD06M.T9 ,
TSM-xxxPD06M.T0(II) ,TSM-xxxPD06M.T8(II) ,TSM-xxxPD06M.T9(II) , (xxx=270-335, in steps of 5);

TSM-xxxDD15M.08(II) ,TSM-xxxDD15M.09(II) ,TSM-xxxDD15M.05(II) ,TSM-xxx DD15M.T0(II),
TSM-xxxDD15M.T8(II) ,TSM-xxxDD15M.T9(II) , (xxx=330-420, in steps of 5);

TSM-xxxDD06M(II) ,TSM-xxxDD06M.09(II) ,TSM-xxxDD06M.05(II) ,TSM-xxxDD06M.T0 (II) ,
TSM-xxxDD06M.T8(II) ,TSM-xxxDD06M.T9(II) , (xxx=275-350, in steps of 5);

TSM-xxxDD14HB(II) ,TSMxxxDD14HB.08(II) ,TSMxxxDD14HB.09(II) ,TSMxxxDD14HB.T0(II),
TSMxxxDD14HB.T8(II,) TSMxxxDD14HB.T9(II) , (xxx=330-395, in steps of 5);

TSM-xxxDD15HB(II) ,TSMxxxDD15HB.08(II) ,TSMxxxDD15HB.09(II),
TSMxxxDD15HB.T0(II) ,TSMxxxDD15HB.T8(II) ,TSMxxxDD15HB.T9(II) ,
(xxx=330-410, in steps of 5);

TSM-xxxND06M(II) ,TSM-xxxND06M.08(II) ,TSM-xxxND06M.09(II) ,TSM-xxxND06M.05(II) ,TSM-
xxxND06M.T0(II) ,TSM-xxxND06M.T8(II) ,TSM-xxxND06M.T9(II) , (xxx=315-335, in steps of 5);

TSM-xxxND07M(II) ,TSM-xxxND07M.08(II) ,TSM-xxxND07M.09(II) ,TSM-xxxND07M.05(II) ,TSM-
xxxND07M.T0(II) ,TSM-xxxND07M.T8(II) ,TSM-xxxND07M.T9(II) , (xxx=315-335, in steps of 5);

TSM-xxxND15M (II) ,TSM-xxxND15M.08(II) ,TSM-xxxND15M.09(II) ,TSM-xxxND15M.T0 (II) ,TSM-
xxxND15M.T8(II) ,TSM-xxxND15M.T9(II) ,TSM-xxxND15M.05(II) , (xxx=375-405, in steps of 5);

TSM-xxxND16M(II) ,TSM-xxxND16M.08(II) ,TSM-xxxND16M.09(II) ,TSM-xxxND16M.T0(II) ,
TSM-xxxND16M.T8(II) ,TSM-xxxND16M.T9(II) ,TSM-xxxND16M.05(II) , (xxx=375-405, in steps of 5);

TSM-xxxDD15M(II) ,(xxx=330-420, in steps of 5);

TSM-xxxDD06M.08(II) ,(xxx=275-350, in steps of 5);

TSM-xxxPD06H ,(xxx=270-335, in steps of 5);

TSM-xxxDD17M(II) ,TSM-xxxDD17M.05(II) ,TSM-xxxDD17M.08(II) ,TSM-xxxDD17M.09(II) ,
TSM-xxxDD17M.T0(II) ,TSM-xxxDD17M.T8(II) ,TSM-xxxDD17M.T9(II) ,(xxx=390-460, in steps of 5);

TSM-xxxDD08M(II) ,TSM-xxxDD08M.05(II) ,TSM-xxxDD08M.08(II) ,TSM-xxxDD08M.09(II) ,
TSM-xxxDD08M.T0(II) ,TSM-xxxDD08M.T8(II) ,TSM-xxxDD08M.T9(II) ,(xxx=335-380, in steps of 5);

TSM-xxxDD15X(II) ,TSM-xxxDD15X.05(II) ,TSM-xxxDD15X.08(II) ,TSM-xxxDD15X.09(II) ,TSM-
xxxDD15X.T0(II) ,TSM-xxxDD15X.T8(II) ,TSM-xxxDD15X.T9(II) ,(xxx=405-435, in steps of 5);

TSM-xxxDD06X(II) ,TSM-xxxDD06X.05(II) ,TSM-xxxDD06X.08(II) ,TSM-xxxDD06X.09(II) ,TSM-
xxxDD06X.T0(II) ,TSM-xxxDD06X.T8(II) ,TSM-xxxDD06X.T9(II) ,(xxx=345-365, in steps of 5);

TSM-xxxND15X(II) ,TSM-xxxND15X.05(II) ,TSM-xxxND15X.08(II) ,TSM-xxxND15X.09(II) ,TSM-
xxxND15X.T0(II) ,TSM-xxxND15X.T8(II) ,TSM-xxxND15X.T9(II) ,(xxx=405-435, in steps of 5);

TSM-xxxND06X(II) ,TSM-xxxND06X.05(II) ,TSM-xxxND06X.08(II) ,TSM-xxxND06X.09(II) ,TSM-
xxxND06X.T0(II) ,TSM-xxxND06X.T8(II) ,TSM-xxxND06X.T9(II) ,(xxx=345-365, in steps of 5);

TSM-xxxPD17M ,TSM-xxxPD17M.08 ,TSM-xxxPD17M.09 ,TSM-xxxPD17M(II) ,TSM-xxxPD17M.08(II) ,
TSM-xxxPD17M.09(II) ,TSM-xxxPD17M.T0 ,TSM-xxxPD17M.T8 ,TSM-xxxPD17M.T9 ,
TSM-xxxPD17M.T0(II) ,TSM-xxxPD17M.T8(II) ,TSM-xxxPD17M.T9(II) ,(xxx=320-445, in steps of 5);

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TSM-xxxPD08M, TSM-xxxPD08M.08, TSM-xxxPD08M.09, TSM-xxxPD08M(II), TSM-xxxPD08M.08(II), TSM-xxxPD08M.09(II), TSM-xxxPD08M.T0, TSM-xxxPD08M.T8, TSM-xxxPD08M.T9, TSM-xxxPD08M.T0(II), TSM-xxxPD08M.T8(II), TSM-xxxPD08M.T9(II), (xxx=270-365, in steps of 5);

TSM-xxxDD18M(II), TSM-xxxDD18M.08(II), TSM-xxxDD18M.09(II), TSM-xxxDD18M.T0(II), TSM-xxxDD18M.T8(II), TSM-xxxDD18M.T9(II), TSM-xxxDD18M.05(II), (xxx=470-515, in steps of 5);

TSM-xxxDC082H.08(II), (xxx=210-225, in steps of 5);

TSM-xxxDD20, TSM-xxxDD20.05, TSM-xxxDD20.08, TSM-xxxDD20.09, TSM-xxxDD20.T0, TSM-xxxDD20.T8, TSM-xxxDD20.T9, (xxx=575-610, in steps of 5);

TSM-xxxDD19, TSM-xxxDD19.05, TSM-xxxDD19.08, TSM-xxxDD19.09, TSM-xxxDD19.T0, TSM-xxxDD19.T8, TSM-xxxDD19.T9, (xxx=530-555, in steps of 5);

TSM-xxxDD18, TSM-xxxDD18.05, TSM-xxxDD18.08, TSM-xxxDD18.09, TSM-xxxDD18.T0,

TSM-xxxDD18.T8, TSM-xxxDD18.T9, (xxx=515-555, in steps of 5);

TSM-xxxDD10, TSM-xxxDD10.05, TSM-xxxDD10.08, TSM-xxxDD10.09, TSM-xxxDD10.T0, TSM-xxxDD10.T8, TSM-xxxDD10.T9, (xxx=430-455, in steps of 5);

➤ **Double Glass Module: System Voltage: 1500V DC**

TSM-xxxDEG14(II), TSM-xxxDEG14.05(II), TSM-xxxDEG14.25(II), TSM-xxxDEG14.07(II), TSM-xxxDEG14.20(II), TSM-xxxDEG14.27(II), TSM-xxxDEG14.28(II), TSM-xxxDEG14.29(II), TSM-xxxDEG14.40(II), TSM-xxxDEG14.47(II) (xxx=330-390, in steps of 5).

TSM-xxxDEG5(II), TSM-xxxDEG5.05(II), TSM-xxxDEG5.25(II), TSM-xxxDEG5.07(II), TSM-xxxDEG5.20(II), TSM-xxxDEG5.27(II), TSM-xxxDEG5.28(II), TSM-xxxDEG5.29(II), TSM-xxxDEG5.40(II), TSM-xxxDEG5.47(II) (xxx=275-325, in steps of 5).

TSM-xxxDEG15(II), TSM-xxxDEG15.05(II), TSM-xxxDEG15.25(II), TSM-xxxDEG15.07(II), TSM-xxxDEG15.20(II), TSM-xxxDEG15.27(II), TSM-xxxDEG15.28(II), TSM-xxxDEG15.29(II), TSM-xxxDEG15.40(II), TSM-xxxDEG15.47(II) (xxx=330-380, in steps of 5).

TSM-xxxDEG6(II), TSM-xxxDEG6.05(II), TSM-xxxDEG6.25(II), TSM-xxxDEG6.07(II), TSM-xxxDEG6.20(II), TSM-xxxDEG6.27(II), TSM-xxxDEG6.28(II), TSM-xxxDEG6.29(II), TSM-xxxDEG6.40(II), TSM-xxxDEG6.47(II) (xxx=275-315, in steps of 5).

TSM-xxxDEG14C(II), TSM-xxxDEG14C.05(II), TSM-xxxDEG14C.25(II), TSM-xxxDEG14C.07(II), TSM-xxxDEG14C.20(II), TSM-xxxDEG14C.27(II), TSM-xxxDEG14C.28(II), TSM-xxxDEG14C.29(II) (xxx=335-370, in steps of 5).

TSM-xxxDEG5C(II), TSM-xxxDEG5C.05(II), TSM-xxxDEG5C.25(II), TSM-xxxDEG5C.07(II), TSM-xxxDEG5C.20(II), TSM-xxxDEG5C.27(II), TSM-xxxDEG5C.28(II), TSM-xxxDEG5C.29(II) (xxx=285-305, in steps of 5).

TSM-xxxDEG15C(II), TSM-xxxDEG15C.05(II), TSM-xxxDEG15C.25(II), TSM-xxxDEG15C.07(II), TSM-xxxDEG15C.20(II), TSM-xxxDEG15C.27(II), TSM-xxxDEG15C.28(II), TSM-xxxDEG15C.29(II) (xxx=335-350, in steps of 5).

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TSM-xxxDEG6C(II), TSM-xxxDEG6C.05(II), TSM-xxxDEG6C.25(II), TSM-xxxDEG6C.07(II),
TSM-xxxDEG6C.20(II), TSM-xxxDEG6C.27(II), TSM-xxxDEG6C.28(II), TSM-xxxDEG6C.29(II)
(xxx=285-295, in steps of 5).

TSM-xxxDEG14H(II), TSM-xxxDEG14H.05(II), TSM-xxxDEG14H.25(II), TSM-xxxDEG14H.07(II),
TSM-xxxDEG14H.20(II), TSM-xxxDEG14H.27(II), TSM-xxxDEG14H.28(II), TSM-xxxDEG14H.29(II),
TSM-xxxDEG14H.40(II), TSM-xxxDEG14H.47(II) (xxx=345-395, in steps of 5).

TSM-xxxDEG5H(II), TSM-xxxDEG5H.05(II), TSM-xxxDEG5H.25(II), TSM-xxxDEG5H.07(II),
TSM-xxxDEG5H.20(II), TSM-xxxDEG5H.27(II), TSM-xxxDEG5H.28(II), TSM-xxxDEG5H.29(II),
TSM-xxxDEG5H.40(II), TSM-xxxDEG5H.47(II) (xxx=290-330, in steps of 5).

TSM-xxxDEG15H(II), TSM-xxxDEG15H.05(II), TSM-xxxDEG15H.25(II), TSM-xxxDEG15H.07(II),
TSM-xxxDEG15H.20(II), TSM-xxxDEG15H.27(II), TSM-xxxDEG15H.28(II), TSM-xxxDEG15H.29(II),
TSM-xxxDEG15H.40(II), TSM-xxxDEG15H.47(II) (xxx=380-410, in steps of 5).

TSM-xxxDEG6H(II), TSM-xxxDEG6H.05(II), TSM-xxxDEG6H.25(II), TSM-xxxDEG6H.07(II),
TSM-xxxDEG6H.20(II), TSM-xxxDEG6H.27(II), TSM-xxxDEG6H.28(II), TSM-xxxDEG6H.29(II),
TSM-xxxDEG6H.40(II), TSM-xxxDEG6H.47(II) (xxx=310-340, in steps of 5).

TSM-xxxDEG14M(II), TSM-xxxDEG14M.05(II), TSM-xxxDEG14M.25(II), TSM-xxxDEG14M.07(II),
TSM-xxxDEG14M.20(II), TSM-xxxDEG14M.27(II), TSM-xxxDEG14M.28(II), TSM-xxxDEG14M.29(II),
TSM-xxxDEG14M.40(II), TSM-xxxDEG14M.47(II) (xxx=345-385, in steps of 5).

TSM-xxxDEG5M(II), TSM-xxxDEG5M.05(II), TSM-xxxDEG5M.25(II), TSM-xxxDEG5M.07(II),
TSM-xxxDEG5M.20(II), TSM-xxxDEG5M.27(II), TSM-xxxDEG5M.28(II), TSM-xxxDEG5M.29(II),
TSM-xxxDEG5M.40(II), TSM-xxxDEG5M.47(II) (xxx=290-320, in steps of 5).

TSM-xxxDEG15M(II), TSM-xxxDEG15M.07(II), TSM-xxxDEG15M.25(II), TSM-xxxDEG15M.07(II),
TSM-xxxDEG15M.20(II), TSM-xxxDEG15M.27(II), TSM-xxxDEG15M.28(II), TSM-xxxDEG15M.29(II),
TSM-xxxDEG15M.40(II), TSM-xxxDEG15M.47(II) (xxx=350-420, in steps of 5).

TSM-xxxDEG6M(II), TSM-xxxDEG6M.05(II), TSM-xxxDEG6M.25(II), TSM-xxxDEG6M.07(II),
TSM-xxxDEG6M.20(II), TSM-xxxDEG6M.27(II), TSM-xxxDEG6M.28(II), TSM-xxxDEG6M.29(II),
TSM-xxxDEG6M.40(II), TSM-xxxDEG6M.47(II) (xxx=295-350, in steps of 5).

TSM-xxxDEG17M(II), TSM-xxxDEG17M.07(II), TSM-xxxDEG17M.25(II), TSM-xxxDEG17M.07(II),
TSM-xxxDEG17M.20(II), TSM-xxxDEG17M.27(II), TSM-xxxDEG17M.28(II), TSM-xxxDEG17M.29(II),
TSM-xxxDEG17M.40(II), TSM-xxxDEG17M.47(II) (xxx=425-460, in steps of 5).

TSM-xxxDEG8M(II), TSM-xxxDEG8M.05(II), TSM-xxxDEG8M.25(II), TSM-xxxDEG8M.07(II),
TSM-xxxDEG8M.20(II), TSM-xxxDEG8M.27(II), TSM-xxxDEG8M.28(II), TSM-xxxDEG8M.29(II),
TSM-xxxDEG8M.40(II), TSM-xxxDEG8M.47(II) (xxx=355-380, in steps of 5).

TSM-xxxDEG14HC(II), TSM-xxxDEG14HC.05(II), TSM-xxxDEG14HC.25(II), TSM-xxxDEG14HC.07(II),
TSM-xxxDEG14HC.20(II), TSM-xxxDEG14HC.27(II), TSM-xxxDEG14HC.28(II), TSM-xxxDEG14HC.29(II),
(xxx=350-395, in steps of 5).

TSM-xxxDEG5HC(II), TSM-xxxDEG5HC.05(II), TSM-xxxDEG5HC.25(II), TSM-xxxDEG5HC.07(II),
TSM-xxxDEG5HC.20(II), TSM-xxxDEG5HC.27(II), TSM-xxxDEG5HC.28(II), TSM-xxxDEG5HC.29(II),
(xxx=295-330, in steps of 5).

TSM-xxxDEG15HC(II), TSM-xxxDEG15HC.05(II), TSM-xxxDEG15HC.25(II), TSM-xxxDEG15HC.07(II),
TSM-xxxDEG15HC.20(II), TSM-xxxDEG15HC.27(II), TSM-xxxDEG15HC.28(II), TSM-xxxDEG15HC.29(II) ,
(xxx=350-410, in steps of 5).

TSM-xxxDEG6HC(II), TSM-xxxDEG15HC.05(II), TSM-xxxDEG15HC.25(II), TSM-xxxDEG6HC.07(II),
TSM-xxxDEG6HC.20(II), TSM-xxxDEG6HC.27(II), TSM-xxxDEG6HC.28(II), TSM-xxxDEG6HC.29(II)
(xxx=295-340, in steps of 5).

TSM-xxxDEG14MC(II), TSM-xxxDEG14MC.05(II), TSM-xxxDEG14MC.25(II), TSM-xxxDEG14MC.07(II),
TSM-xxxDEG14MC.20(II), TSM-xxxDEG14MC.27(II), TSM-xxxDEG14MC.28(II),
TSM-xxxDEG14MC.29(II) (xxx=350-395, in steps of 5).

TSM-xxxDEG5MC(II), TSM-xxxDEG5MC.05(II), TSM-xxxDEG5MC.25(II), TSM-xxxDEG5MC.07(II),
TSM-xxxDEG5MC.20(II), TSM-xxxDEG5MC.27(II), TSM-xxxDEG5MC.28(II), TSM-xxxDEG5MC.29(II) ,
(xxx=295-330, in steps of 5).

TSM-xxxDEG15MC(II), TSM-xxxDEG15MC.05(II), TSM-xxxDEG15MC.25(II), TSM-xxxDEG15MC.07(II),
TSM-xxxDEG15MC.20(II), TSM-xxxDEG15MC.27(II), TSM-xxxDEG15MC.28(II),
TSM-xxxDEG15MC.29(II) , (xxx=350-425, in steps of 5).

TSM-xxxDEG6MC(II), TSM-xxxDEG6MC.05(II), TSM-xxxDEG6MC.25(II), TSM-xxxDEG6MC.07(II),
TSM-xxxDEG6MC.20(II), TSM-xxxDEG6MC.27(II), TSM-xxxDEG6MC.28(II), TSM-xxxDEG6MC.29(II),
(xxx=295-350, in steps of 5).

TSM-xxxDEG17MC(II), TSM-xxxDEG17MC.05(II), TSM-xxxDEG17MC.25(II), TSM-xxxDEG17MC.07(II),
TSM-xxxDEG17MC.20(II), TSM-xxxDEG17MC.27(II), TSM-xxxDEG17MC.28(II), TSM-xxxDEG17MC.29(II),
(xxx=425-460, in steps of 5).

TSM-xxxDEG8MC(II), TSM-xxxDEG8MC.05(II), TSM-xxxDEG8MC.25(II), TSM-xxxDEG8MC.07(II),
TSM-xxxDEG8MC.20(II), TSM-xxxDEG8MC.27(II), TSM-xxxDEG8MC.28(II), TSM-xxxDEG8MC.29(II),
(xxx=355-380, in steps of 5)

TSM-xxxDEG18MC(II), TSM-xxxDEG18MC.05(II), TSM-xxxDEG18MC.25(II), TSM-xxxDEG18MC.07(II),
TSM-xxxDEG18MC.20(II), TSM-xxxDEG18MC.27(II), TSM-xxxDEG18MC.28(II), TSM-xxxDEG18MC.29(II) ,
(xxx=460-510, in steps of 5).

TSM-xxxDEG9C.20, TSM-xxxDEG9C.25, TSM-xxxDEG9C.27, TSM-xxxDEG9C.28, TSM-xxxDEG9C.29,
(xxx=370-405, in steps of 5).

TSM-xxxDEG18M(II), TSM-xxxDEG18M.05(II), TSM-xxxDEG18M.25(II), TSM-xxxDEG18M.07(II),
TSM-xxxDEG18M.20(II), TSM-xxxDEG18M.27(II), TSM-xxxDEG18M.28(II),

TSM-xxxDEG18M.29(II), (xxx=460-510, in steps of 5).

TSM-xxxDEG9.20, TSM-xxxDEG9.25, TSM-xxxDEG9.27, TSM-xxxDEG9.28, TSM-xxxDEG9.29
(xxx=370-405, in steps of 5).

TSM-xxxDEG17XC.25(II), TSM-xxxDEG17XC.20(II), TSM-xxxDEG17XC.27(II), TSM-xxxDEG17XC.28(II),
TSM-xxxDEG17XC.29(II) , (xxx=445-490, in steps of 5).

TSM-xxxDEG17X.25(II), TSM-xxxDEG17X.20(II), TSM-xxxDEG17X.27(II), TSM-xxxDEG17X.28(II),
TSM-xxxDEG17X.29(II) , (xxx=445-490, in steps of 5).

TSM-xxxDEG21C.20, TSM-xxxDEG21C.25, TSM-xxxDEG21C.27, TSM-xxxDEG21C.28,
TSM-xxxDEG21C.29 , TSM-xxxDEG21C.70(xxx=625-675, in steps of 5).

TSM-xxxDEG20C.20, TSM-xxxDEG20C.25, TSM-xxxDEG20C.27, TSM-xxxDEG20C.28,
TSM-xxxDEG20C.29 (xxx=570-610, in steps of 5);

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TSM-xxxDEG19C.20, TSM-xxxDEG19C.25, TSM-xxxDEG19C.27, TSM-xxxDEG19C.28,
TSM-xxxDEG19C.29 (xxx=525-555, in steps of 5);

TSM-xxxDEG20.20, TSM-xxxDEG20.25, TSM-xxxDEG20.27, TSM-xxxDEG20.28, TSM-xxxDEG20.29,
(xxx=575-605, in steps of 5);

TSM-xxxDEG19.20, TSM-xxxDEG19.25, TSM-xxxDEG19.27, TSM-xxxDEG19.28, TSM-xxxDEG19.29,
(xxx=525-555, in steps of 5), (xxx=525-555, in steps of 5);

TSM-xxxDEG18C.20, TSM-xxxDEG18C.25, TSM-xxxDEG18C.27, TSM-xxxDEG18C.28,
TSM-xxxDEG18C.29, (xxx=520-555, in steps of 5);

TSM-xxxDEG10C.20, TSM-xxxDEG10C.25, TSM-xxxDEG10C.27, TSM-xxxDEG10C.28, TSM-
xxxDEG10C.29, (xxx=425-450, in steps of 5);

TSM-xxxDEG18.20, TSM-xxxDEG18.25, TSM-xxxDEG18.27, TSM-xxxDEG18.28, TSM-xxxDEG18.29 ,
(xxx=520-555, in steps of 5);

TSM-xxxDEG10.20, TSM-xxxDEG10.25, TSM-xxxDEG10.27, TSM-xxxDEG10.28,
TSM-xxxDEG10.29, (xxx=425-450, in steps of 5);

TSM-xxxDEG19RC.20, TSM-xxxDEG19RC.25, TSM-xxxDEG19RC.27, TSM-xxxDEG19RC.28,
TSM-xxxDEG19RC.29 (xxx=540-590, in steps of 5)

TSM-xxxDEG19RC.B0, TSM-xxxDEG19RC.B5, TSM-xxxDEG19RC.B7, TSM-xxxDEG19RC.B8,
TSM-xxxDEG19RC.B9, TSM-xxxDEG19RC.70 (xxx=540-590, in steps of 5)

TSM-xxxDEG19R.20, TSM-xxxDEG19R.25, TSM-xxxDEG19R.27, TSM-xxxDEG19R.28,
TSM-xxxDEG19R.29 (xxx=540-590, in steps of 5)

TSM-xxxDEG19R.B0, TSM-xxxDEG19R.B5, TSM-xxxDEG19R.B7, TSM-xxxDEG19R.B8,

TSM-xxxDEG19R.B9 (xxx=540-590, in steps of 5)

TSM-xxxDEG9RC.B0, TSM-xxxDEG9RC.B5, TSM-xxxDEG9RC.B7, TSM-xxxDEG9RC.B8,
TSM-xxxDEG9RC.B9 (xxx=395-435, in steps of 5)

TSM-xxxDEG9RC.20, TSM-xxxDEG9RC.25, TSM-xxxDEG9RC.27, TSM-xxxDEG9RC.28,
TSM-xxxDEG9RC.29 (xxx=395-435, in steps of 5)

TSM-xxxDEG9R.B0, TSM-xxxDEG9R.B5, TSM-xxxDEG9R.B7, TSM-xxxDEG9R.B8,
TSM-xxxDEG9R.B9, (xxx=395-435, in steps of 5)

TSM-xxxDEG9R.20, TSM-xxxDEG9R.25, TSM-xxxDEG9R.27, TSM-xxxDEG9R.28,
TSM-xxxDEG9R.29, (xxx=395-435, in steps of 5)

TSM-xxxDEG15VC.20(II), TSM-xxxDEG15VC.25(II), TSM-xxxDEG15VC.27(II),
TSM-xxxDEG15VC.28(II), TSM-xxxDEG15VC.29(II) , (xxx=465-490, in steps of 5).

TSM-xxxNEG14C(II), TSM-xxxNEG14C.05(II), TSM-xxxNEG14C.25(II), TSM-xxxNEG14C.07(II),
TSM-xxxNEG14C.20(II), TSM-xxxNEG14C.27(II), TSM-xxxNEG14C.28(II), TSM-xxxNEG14C.29(II),
(xxx=350-370, in steps of 5).

TSM-xxxNEG5C(II), TSM-xxxNEG5C.05(II), TSM-xxxNEG5C.25(II), TSM-xxxNEG5C.07(II),
TSM-xxxNEG5C.20(II), TSM-xxxNEG5C.27(II), TSM-xxxNEG5C.28(II), TSM-xxxNEG5C.29(II)
(xxx=295-305, in steps of 5).

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TSM-xxxNEG15C(II), TSM-xxxNEG15C.05(II), TSM-xxxNEG15C.25(II), TSM-xxxNEG15C.07(II),
TSM-xxxNEG15C.20(II), TSM-xxxNEG15C.27(II), TSM-xxxNEG15C.28(II), TSM-xxxNEG15C.29(II) ,
(xxx=350-370, in steps of 5).

TSM-xxxNEG6C(II), TSM-xxxNEG6C.05(II), TSM-xxxNEG6C.25(II), TSM-xxxNEG6C.07(II),
TSM-xxxNEG6C.20(II), TSM-xxxNEG6C.27(II), TSM-xxxNEG6C.28(II), TSM-xxxNEG6C.29(II)
(xxx=295-305, in steps of 5)

TSM-xxxNEG16C(II), TSM-xxxNEG16C.05(II), TSM-xxxNEG16C.25(II), TSM-xxxNEG16C.07(II),
TSM-xxxNEG16C.20(II), TSM-xxxNEG16C.27(II), TSM-xxxNEG16C.28(II), TSM-xxxNEG16C.29(II)
(xxx=350-410, in steps of 5).

TSM-xxxNEG7C(II), TSM-xxxNEG7C.05(II), TSM-xxxNEG7C.25(II), TSM-xxxNEG7C.07(II),
TSM-xxxNEG7C.20(II), TSM-xxxNEG7C.27(II), TSM-xxxNEG7C.28(II), TSM-xxxNEG7C.29(II)
(xxx=295-340, in steps of 5).

TSM-xxxNEG14MC(II), TSM-xxxNEG14MC.05(II), TSM-xxxNEG14MC.25(II), TSM-xxxNEG14MC.07(II),
TSM-xxxNEG14MC.20(II), TSM-xxxNEG14MC.27(II), TSM-xxxNEG14MC.28(II),
TSM-xxxNEG14MC.29(II) (xxx=350-380, in steps of 5).

TSM-xxxNEG5MC(II), TSM-xxxNEG5MC.05(II), TSM-xxxNEG5MC.25(II), TSM-xxxNEG5MC.07(II),
TSM-xxxNEG5MC.20(II), TSM-xxxNEG5MC.27(II), TSM-xxxNEG5MC.28(II), TSM-xxxNEG5MC.29(II) ,
(xxx=295-315, in steps of 5).

TSM-xxxNEG15MC(II), TSM-xxxNEG15MC.05(II), TSM-xxxNEG15MC.25(II), TSM-xxxNEG15MC.07(II),
TSM-xxxNEG15MC.20(II), TSM-xxxNEG15MC.27(II), TSM-xxxNEG15MC.28(II), TSM-xxxNEG15MC.29(II) ,
(xxx=350-420, in steps of 5).

TSM-xxxNEG6MC(II), TSM-xxxNEG6MC.05(II), TSM-xxxNEG6MC.25(II), TSM-xxxNEG6MC.07(II),
TSM-xxxNEG6MC.20(II), TSM-xxxNEG6MC.27(II), TSM-xxxNEG6MC.28(II), TSM-xxxNEG6MC.29(II),
(xxx=295-345, in steps of 5).

TSM-xxxNEG15M(II), TSM-xxxNEG15M.05(II), TSM-xxxNEG15M.25(II), TSM-xxxNEG15M.07(II),
TSM-xxxNEG15M.20(II), TSM-xxxNEG15M.27(II), TSM-xxxNEG15M.28(II),

TSM-xxxNEG15M.29(II) (xxx=350-420, in steps of 5).

TSM-xxxNEG6M(II), TSM-xxxNEG6M.05(II), TSM-xxxNEG6M.25(II), TSM-xxxNEG6M.07(II),
TSM-xxxNEG6M.20(II), TSM-xxxNEG6M.27(II), TSM-xxxNEG6M.28(II), TSM-xxxNEG6M.29(II) ,
(xxx=295-345, in steps of 5).

TSM-xxxNEG16MC(II), TSM-xxxNEG16MC.05(II), TSM-xxxNEG16MC.25(II), TSM-xxxNEG16MC.07(II),
TSM-xxxNEG16MC.20(II), TSM-xxxNEG16MC.27(II), TSM-xxxNEG16MC.28(II), TSM-xxxNEG16MC.29(II),
(xxx=390-435, in steps of 5).

TSM-xxxNEG7MC(II), TSM-xxxNEG7MC.05(II), TSM-xxxNEG7MC.25(II), TSM-xxxNEG7MC.07(II),
TSM-xxxNEG7MC.20(II), TSM-xxxNEG7MC.27(II), TSM-xxxNEG7MC.28(II), TSM-xxxNEG7MC.29(II),
(xxx=325-360, in steps of 5).

TSM-xxxNEG16M(II), TSM-xxxNEG16M.05(II), TSM-xxxNEG16M.25(II), TSM-xxxNEG16M.07(II),
TSM-xxxNEG16M.20(II), TSM-xxxNEG16M.27(II), TSM-xxxNEG16M.28(II), TSM-xxxNEG16M.29(II) ,
(xxx=390-435, in steps of 5).

TSM-xxxNEG7M(II), TSM-xxxNEG7M.05(II), TSM-xxxNEG7M.25(II), TSM-xxxNEG7M.07(II),
TSM-xxxNEG7M.20(II), TSM-xxxNEG7M.27(II), TSM-xxxNEG7M.28(II), TSM-xxxNEG7M.29(II)
(xxx=325-360, in steps of 5).

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TSM-xxxNEG15XC(II), TSM-xxxNEG15XC.05(II), TSM-xxxNEG15XC.25(II), TSM-xxxNEG15XC.07(II),
TSM-xxxNEG15XC.20(II), TSM-xxxNEG15XC.27(II), TSM-xxxNEG15XC.28(II), TSM-xxxNEG15XC.29(II)
(xxx=425-445, in steps of 5).

TSM-xxxDEG5ZV(II), TSM-xxxDEG5ZV.05(II), TSM-xxxDEG5ZV.07(II), TSM-xxxDEG5ZV.40(II),
TSM-xxxDEG5ZV.47(II), (xxx=305-330, in steps of 5).

TSM-xxxNEG18MC.20(II), TSM-xxxNEG18MC.25(II), TSM-xxxNEG18MC.27(II), TSM-xxxNEG18MC.28(II),
TSM-xxxNEG18MC.29(II), TSM-xxxNEG18MC.30(II), (xxx=500-520, in steps of 5)

TSM-xxxNEG9C.20, TSM-xxxNEG9C.25, TSM-xxxNEG9C.27, TSM-xxxNEG9C.28, TSM-xxxNEG9C.29,
(xxx=390-430, in steps of 5)

TSM-xxxNEG9.20, TSM-xxxNEG9.25, TSM-xxxNEG9.27, TSM-xxxNEG9.28, TSM-xxxNEG9.29,
(xxx=390-430, in steps of 5)

TSM-xxxNEG20C.20, TSM-xxxNEG20C.25, TSM-xxxNEG20C.27, TSM-xxxNEG20C.28,
TSM-xxxNEG20C.29, TSM-xxxNEG20C.C0, TSM-xxxNEG20C.70(xxx=580-650, in steps of 5)

TSM-xxxNEG19C.20, TSM-xxxNEG19C.25, TSM-xxxNEG19C.27, TSM-xxxNEG19C.28,
TSM-xxxNEG19C.29, (xxx=530-570, in steps of 5)

TSM-xxxNEG21C.20, TSM-xxxNEG21C.25, TSM-xxxNEG21C.27, TSM-xxxNEG21C.28,
TSM-xxxNEG21C.29, TSM-xxxNEG21C.70(xxx=635-720, in steps of 5)

TSM-xxxHEG15XKC.203, TSM-xxxHEG15XKC.253, TSM-xxxHEG15XKC.273, TSM-xxxHEG15XKC.283,
TSM-xxxHEG15XKC.293, (xxx=435-455, in steps of 5)

TSM-xxxHEG15VKC.20, TSM-xxxHEG15VKC.25, TSM-xxxHEG15VKC.27, TSM-xxxHEG15VKC.28,
TSM-xxxHEG15VKC.29, (xxx=475-485, in steps of 5)

TSM-xxxHEG15YKC.20, TSM-xxxHEG15YKC.25, TSM-xxxHEG15YKC.27, TSM-xxxHEG15YKC.28,

TSM-xxxHEG15YKC.29, (xxx=515-530, in steps of 5)

TSM-xxxHEG6XKC.20, TSM-xxxHEG6XKC.25, TSM-xxxHEG6XKC.27, TSM-xxxHEG6XKC.28,
TSM-xxxHEG6XKC.29, (xxx=370-375, in steps of 5)

TSM-xxxHEG15XC.20, TSM-xxxHEG15XC.25, TSM-xxxHEG15XC.27, TSM-xxxHEG15XC.28,
TSM-xxxHEG15XC.29, (xxx=440-460, in steps of 5)

TSM-xxxHEG15C.20, TSM-xxxHEG15C.25, TSM-xxxHEG15C.27, TSM-xxxHEG15C.28,

TSM-xxxHEG15C.29, (xxx=410-425, in steps of 5).

TSM-xxxHEG6C.20, TSM-xxxHEG6C.25, TSM-xxxHEG6C.27, TSM-xxxHEG6C.28, TSM-xxxHEG6C.29,
(xxx=340-350, in steps of 5)

TSM-xxxHEG21C.20, TSM-xxxHEG21C.25, TSM-xxxHEG21C.27, TSM-xxxHEG21C.28, TSM-xxxHEG21C.29,
(xxx=640-685, in steps of 5)

TSM-xxxHEG20C.20, TSM-xxxHEG20C.25, TSM-xxxHEG20C.27, TSM-xxxHEG20C.28, TSM-xxxHEG20C.29
(xxx=585-620, in steps of 5)

TSM-xxxHEG19C.20, TSM-xxxHEG19C.25, TSM-xxxHEG19C.27, TSM-xxxHEG19C.28, TSM-xxxHEG19C.29,
(xxx=530-565, in steps of 5)

TSM-xxxPEG14, TSM-xxxPEG14.05, TSM-xxxPEG14.25, TSM-xxxPEG14.07, TSM-xxxPEG14.20, TSM-xxxPEG14.27, TSM-xxxPEG14.28, TSM-xxxPEG14.29, TSM-xxxPEG14.40, TSM-xxxPEG14.47 (xxx=315-360, in steps of 5);

TSM-xxxPEG14(II), TSM-xxxPEG14.05(II), TSM-xxxPEG14.25(II), TSM-xxxPEG14.07(II), TSM-xxxPEG14.20(II), TSM-xxxPEG14.27(II), TSM-xxxPEG14.28(II), TSM-xxxPEG14.29(II), TSM-xxxPEG14.40(II), TSM-xxxPEG14.47(II) (xxx=315-360, in steps of 5).

TSM-xxxPEG5, TSM-xxxPEG5.05, TSM-xxxPEG5.25, TSM-xxxPEG5.07, TSM-xxxPEG5.20, TSM-xxxPEG5.27, TSM-xxxPEG5.28, TSM-xxxPEG5.29, TSM-xxxPEG5.40, TSM-xxxPEG5.47, (xxx=265-300, in steps of 5);

TSM-xxxPEG5(II), TSM-xxxPEG5.05(II), TSM-xxxPEG5.25(II), TSM-xxxPEG5.07(II), TSM-xxxPEG5.20(II), TSM-xxxPEG5.27(II), TSM-xxxPEG5.28(II), TSM-xxxPEG5.29(II), TSM-xxxPEG5.40(II), TSM-xxxPEG5.47(II), (xxx=265-300, in steps of 5).

TSM-xxxPEG15, TSM-xxxPEG15.05, TSM-xxxPEG15.25, TSM-xxxPEG15.07, TSM-xxxPEG15.20, TSM-xxxPEG15.27, TSM-xxxPEG15.28, TSM-xxxPEG15.29, TSM-xxxPEG15.40, TSM-xxxPEG15.47, (xxx=315-360, in steps of 5);

TSM-xxxPEG15(II), TSM-xxxPEG15.05(II), TSM-xxxPEG15.25(II), TSM-xxxPEG15.07(II), TSM-xxxPEG15.20(II), TSM-xxxPEG15.27(II), TSM-xxxPEG15.28(II), TSM-xxxPEG15.29(II), TSM-xxxPEG15.40(II), TSM-xxxPEG15.47(II), (xxx=315-360, in steps of 5).

TSM-xxxPEG6, TSM-xxxPEG6.05, TSM-xxxPEG6.25, TSM-xxxPEG6.07, TSM-xxxPEG6.20, TSM-xxxPEG6.27, TSM-xxxPEG6.28, TSM-xxxPEG6.29, TSM-xxxPEG6.40, TSM-xxxPEG6.47, (xxx=265-300, in steps of 5);

TSM-xxxPEG6(II), TSM-xxxPEG6.05(II), TSM-xxxPEG6.25(II), TSM-xxxPEG6.07(II), TSM-xxxPEG6.20(II), TSM-xxxPEG6.27(II), TSM-xxxPEG6.28(II), TSM-xxxPEG6.29(II), TSM-xxxPEG6.40(II), TSM-xxxPEG6.47(II), (xxx=265-300, in steps of 5).

TSM-xxxPEG14H, TSM-xxxPEG14H.05, TSM-xxxPEG14H.25, TSM-xxxPEG14H.07, TSM-xxxPEG14H.20, TSM-xxxPEG14H.27, TSM-xxxPEG14H.28, TSM-xxxPEG14H.29, TSM-xxxPEG14H.40, TSM-xxxPEG14H.47, (xxx=330-360, in steps of 5);

TSM-xxxPEG14H(II), TSM-xxxPEG14H.05(II), TSM-xxxPEG14H.25(II), TSM-xxxPEG14H.07(II), TSM-xxxPEG14H.20(II), TSM-xxxPEG14H.27(II), TSM-xxxPEG14H.28(II), TSM-xxxPEG14H.29(II),

TSM-xxxPEG14H.40(II), TSM-xxxPEG14H.47(II), (xxx=330-360, in steps of 5).

TSM-xxxPEG5H, TSM-xxxPEG5H.05, TSM-xxxPEG5H.25, TSM-xxxPEG5H.07, TSM-xxxPEG5H.20,

TSM-xxxPEG5H.27, TSM-xxxPEG5H.28, TSM-xxxPEG5H.29, TSM-xxxPEG5H.40, TSM-xxxPEG5H.47, (xxx=275-300, in steps of 5);

TSM-xxxPEG5H(II), TSM-xxxPEG5H.05(II), TSM-xxxPEG5H.25(II), TSM-xxxPEG5H.07(II),

TSM-xxxPEG5H.20(II), TSM-xxxPEG5H.27(II), TSM-xxxPEG5H.28(II), TSM-xxxPEG5H.29(II), TSM-xxxPEG5H.40(II), TSM-xxxPEG5H.47(II), (xxx=275-300, in steps of 5).

TSM-xxxPEG15H, TSM-xxxPEG15H.05, TSM-xxxPEG15H.25, TSM-xxxPEG15H.07, TSM-xxxPEG15H.20, TSM-xxxPEG15H.27, TSM-xxxPEG15H.28, TSM-xxxPEG15H.29, TSM-xxxPEG15H.40, TSM-xxxPEG15H.47, (xxx=340-360, in steps of 5);

TSM-xxxPEG15H(II), TSM-xxxPEG15H.05(II), TSM-xxxPEG15H.25(II), TSM-xxxPEG15H.07(II), TSM-xxxPEG15H.20(II), TSM-xxxPEG15H.27(II), TSM-xxxPEG15H.28(II), TSM-xxxPEG15H.29(II), TSM-xxxPEG15H.40(II), TSM-xxxPEG15H.47(II) (xxx=340-400, in steps of 5).

TSM-xxxPEG6H, TSM-xxxPEG6H.05, TSM-xxxPEG6H.25, TSM-xxxPEG6H.07, TSM-xxxPEG6H.20,

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TSM-xxxPEG6H.27, TSM-xxxPEG6H.28, TSM-xxxPEG6H.29, TSM-xxxPEG6H.40, TSM-xxxPEG6H.47,
(xxx=280-300, in steps of 5);

TSM-xxxPEG6H(II), TSM-xxxPEG6H.05(II), TSM-xxxPEG6H.25(II), TSM-xxxPEG6H.07(II),
TSM-xxxPEG6H.20(II), TSM-xxxPEG6H.27(II), TSM-xxxPEG6H.28(II), TSM-xxxPEG6H.29(II),
TSM-xxxPEG6H.40(II), TSM-xxxPEG6H.47(II) (xxx=280-330, in steps of 5).

TSM-xxxPEG14M(II), TSM-xxxPEG14M.05(II), TSM-xxxPEG14M.25(II), TSM-xxxPEG14M.07(II),
TSM-xxxPEG14M.20(II), TSM-xxxPEG14M.27(II), TSM-xxxPEG14M.28(II), TSM-xxxPEG14M.29(II),
TSM-xxxPEG14M.40(II), TSM-xxxPEG14M.47(II) (xxx=330-360, in steps of 5).

TSM-xxxPEG5M(II), TSM-xxxPEG5M.05(II), TSM-xxxPEG5M.25(II), TSM-xxxPEG5M.07(II),
TSM-xxxPEG5M.20(II), TSM-xxxPEG5M.27(II), TSM-xxxPEG5M.28(II), TSM-xxxPEG5M.29(II),
TSM-xxxPEG5M.40(II), TSM-xxxPEG5M.47(II),
(xxx=275-300, in steps of 5).

TSM-xxxPEG15M(II), TSM-xxxPEG15M.05(II), TSM-xxxPEG15M.25(II), TSM-xxxPEG15M.07(II),
TSM-xxxPEG15M.20(II), TSM-xxxPEG15M.27(II), TSM-xxxPEG15M.28(II), TSM-xxxPEG15M.29(II),
TSM-xxxPEG15M.40(II), TSM-xxxPEG15M.47(II) (xxx=340-405, in steps of 5).

TSM-xxxPEG6M(II), TSM-xxxPEG6M.05(II), TSM-xxxPEG6M.25(II), TSM-xxxPEG6M.07(II),
TSM-xxxPEG6M.20(II), TSM-xxxPEG6M.27(II), TSM-xxxPEG6M.28(II), TSM-xxxPEG6M.29(II),
TSM-xxxPEG6M.40(II), TSM-xxxPEG6M.47(II), (xxx=280-335, in steps of 5).

TSM-xxxPEG17MC(II), TSM-xxxPEG17MC.05(II), TSM-xxxPEG17MC.25(II), TSM-xxxPEG17MC.07(II),
TSM-xxxPEG17MC.20(II), TSM-xxxPEG17MC.27(II), TSM-xxxPEG17MC.28(II), TSM-xxxPEG17MC.29(II)
(xxx=410-445, in steps of 5).

TSM-xxxPEG8MC(II), TSM-xxxPEG8MC.05(II), TSM-xxxPEG8MC.25(II), TSM-xxxPEG8MC.07(II),
TSM-xxxPEG8MC.20(II), TSM-xxxPEG8MC.27(II), TSM-xxxPEG8MC.28(II), TSM-xxxPEG8MC.29(II)
(xxx=350-365, in steps of 5)

TSM-xxxPEG17M(II), TSM-xxxPEG17M.05(II), TSM-xxxPEG17M.25(II), TSM-xxxPEG17M.07(II),
TSM-xxxPEG17M.20(II), TSM-xxxPEG17M.27(II), TSM-xxxPEG17M.28(II), TSM-xxxPEG17M.29(II)
(xxx=410-445, in steps of 5).

TSM-xxxPEG8M(II), TSM-xxxPEG8M.05(II), TSM-xxxPEG8M.25(II), TSM-xxxPEG8M.07(II),

TSM-xxxPEG8M.20(II), TSM-xxxPEG8M.27(II), TSM-xxxPEG8M.28(II), TSM-xxxPEG8M.29(II),
(xxx=350-365, in steps of 5).

TSM-xxxPEG5ZV, TSM-xxxPEG5ZV.05, TSM-xxxPEG5ZV.07, TSM-xxxPEG5ZV.40, TSM-xxxPEG5ZV.47
(xxx=280-300, in steps of 5).

TSM-xxxNEG19RC.20, TSM-xxxNEG19RC.25, TSM-xxxNEG19RC.27, TSM-xxxNEG19RC.28,
TSM-xxxNEG19RC.29, TSM-xxxNEG19RC.70(xxx=525-620, in steps of 5);

TSM-xxxNEG19R.20, TSM-xxxNEG19R.25, TSM-xxxNEG19R.27, TSM-xxxNEG19R.28,
TSM-xxxNEG19R.29, (xxx=525-620, in steps of 5);

TSM-xxxNEG9RC.20, TSM-xxxNEG9RC.25, TSM-xxxNEG9RC.28, TSM-xxxNEG9RC.27, TSM-xxxNEG9RC.29,
TSM-xxxNEG9RC.B0, TSM-xxxNEG9RC.B5, TSM-xxxNEG9RC.B8, TSM-xxxNEG9RC.B7, TSM-xxxNEG9RC.B9,
(xxx=375-460, in steps of 5)

TSM-xxxNEG9R.20, TSM-xxxNEG9R.25, TSM-xxxNEG9R.28, TSM-xxxNEG9R.27, TSM-xxxNEG9R.29, TSM-
xxxNEG9R.B0, TSM-xxxNEG9R.B5, TSM-xxxNEG9R.B8, TSM-xxxNEG9R.B7, TSM-xxxNEG9R.B9,
(xxx=375-460, in steps of 5)

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TSM-xxxDEG9R.20W, TSM-xxxDEG9R.28W, (xxx=395-435, in steps of 5).

TSM-xxxDEG9RC.27W, (xxx=395-435, in steps of 5); TSM-xxxDEG18MC.20W(II), (xxx=460-510, in steps of 5);

TSM-xxxDEG19C.20W, (xxx=525-555, in steps of 5); TSM-xxxDEG19RC.20W, (xxx=540-590, in steps of 5);

TSM-xxxDEG20C.20W, TSM-xxxDEG20C.28W, TSM-xxxDEG20C.70(xxx=570-610, in steps of 5)

TSM-xxxDEG21C.20W, (xxx=625-675, in steps of 5);

TSM-xxxDEG18C.20W, (xxx=520-555, in steps of 5);

TSM-xxxNEG18C.20, TSM-xxxNEG18C.25, TSM-xxxNEG18C.27, TSM-xxxNEG18C.28, TSM-xxxNEG18C.29, (xxx=555-595, in steps of 5)

TSM-xxxNEG18R.20, TSM-xxxNEG18R.25, TSM-xxxNEG18R.27, TSM-xxxNEG18R.28, TSM-xxxNEG18R.29, (xxx=470-505, in steps of 5)

TSM-xxxNEG20MC.20, TSM-xxxNEG20MC.25, TSM-xxxNEG20MC.27, TSM-xxxNEG20MC.28, TSM-xxxNEG20MC.29, (xxx=600-635, in steps of 5)

Are in conformity with the following standards:

Directive 2014/35/EU, LVD

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

This Declaration of Conformity is issued for the listed above under the sole responsibility of Trina Solar. With reference to the Low Voltage Directive 2014/35/EU relating to the electrical equipment designed for use within certain voltage limits, it confirms that the list equipment complies with the principal protection requirements of the directive. If there is discrepancy between English version, Polish version and Spanish version, the English version should be prevailing.

Signature

Title: Director of Quality Department

Name: Bing Wang

Date: 1ST, March, 2024

Issued Place: China

Trina Solar Co. Ltd.

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EU DECLARATION OF CONFORMITY

(DoC No. 23013002)

We **Hoymiles Power Electronics Inc.**
No.18 Kangjing Road, Hangzhou 310015, Zhejiang Province, P.R. China

as the manufacturer, declare under our sole responsibility that the following products

PRODUCT: **PV Microinverter**
MODELS: **HMS-2000-4T, HMS-1800-4T, HMS-1600-4T**
HMS-2000C-4T, HMS-1800C-4T, HMS-1600C-4T, HMS-1400C-4T
HMS-1000-2T, HMS-900-2T, HMS-800-2T, HMS-700-2T, HMS-600-2T
HMS-500-1T, HMS-450-1T, HMS-400-1T, HMS-350-1T, HMS-300-1T

to which this declaration relates, are in conformity with the following directive and standards:

Directives	2014/53/EU (RE Directive)
Article 3.1(b) EMC	EN 301 489-1 V2.2.3 (2019-11) EN 301 489-3 V2.1.1 (2019-03) EN 61000-6-1:2019 EN 61000-6-2:2019 EN 61000-6-3:2021 EN 61000-6-4:2019 EN 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021
Article 3.1(a) Safety	EN 62109-1:2010 EN 62109-2:2011
Article 3.1(a) Health	EN 62479:2010 EN 50663:2017
Article 3.2 Radio	EN 300 220-1 V3.1.1 (2017-02) EN 300 220-2 V3.1.1 (2017-02)

Manufacturer: Hoymiles Power Electronics Inc.

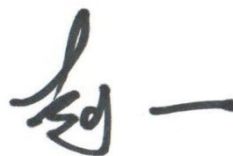
Address: No.18 Kangjing Road, Hangzhou 310015, Zhejiang Province, P.R. China

EU Importer: Hoymiles Power Electronics B.V.

Address: High Tech Campus 9, Unit BK 3.28, 5656 AE Eindhoven, Netherlands

This Declaration of Conformity is not valid any longer, in case, without any written authorization by Hoymiles Power Electronics Inc.:

- The product is modified, supplemented or changed in any other way
- The product is used or installed improperly.

A handwritten signature in black ink, consisting of stylized Chinese characters followed by a horizontal line.

Yi Zhao, Vice President.
2023-01-30
Hangzhou, China

Hoymiles Power Electronics Inc.
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Tel: +86 571 28056101
Fax: +86 571 28056137
<http://www.hoymiles.com/>

Appendix:

Product Specifications	
Frequency Range	863.25 MHz to 869.75 MHz
RF Output Power (EIRP)	11.69 dBm
Modulation Type	GFSK
Type of Antenna	External Omni Antenna
Antenna Gain	2.0 dBi

Certificate

of Conformity

Reingetragene Nr.:
Registered No.:

COCVP02105/23B-03_R1

Aktenzeichen
File reference

PVP02105/23B-03

Testbericht Nr.
Test report No.

TRPVP02105/23B/03

Ausstellungsdatum
Date of issue

2023-08-03

Auf der Grundlage der durchgeführten Prüfungen wurde festgestellt, dass die Muster des/der folgenden Produkte(s) zum Zeitpunkt der Durchführung der Prüfungen die wesentlichen Anforderungen der genannten Spezifikationen erfüllen:

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Antragsteller:
Applicant: **Hoymiles Power Electronics Inc.**
No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China

Hersteller:
Manufacturer: **Hoymiles Power Electronics Inc.**
No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China

Fertigungsstätte:
Factory: **Hoymiles Power Electronics Inc.**
No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China

Produkt:
Product: PV-Mikrowechselrichter
PV Microinverter

Typenbezeichnung:
Type designation: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T,
HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T

Zertifizierungsprogramm:
Certification program: BOS-P-01 Rev. 00

Zertifizierungsgrundlage(n):
Certification fundamental(s): DIN VDE V 0124-100:2020-06
VDE-AR-N 4105:2018

Detaillierte Informationen finden Sie im Testbericht.
See test report for detailed information.

Dieses Dokument basiert auf der Auswertung der Proben der oben genannten Produkte. Sie stellt keine Bewertung der Massenproduktion des/der Produkte(s) dar und erlaubt nicht die Verwendung eines TÜV NORD-Zeichens. Der Inhaber dieses Dokuments darf es in Verbindung mit dem/den zugehörigen Prüfbericht(en) verwenden.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



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E.6 Zertifikat für den NA-Schutz E.6 Certificate of the network and system protection	
Hersteller: Manufacturer:	Hoymiles Power Electronics Inc. No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
Typ NA-Schutz: Type of NS protection:	☐ Zentraler NA-Schutz: <i>Central NS protection</i> ☒ Integrierter NA-Schutz: Zugewiesen an Stromerzeugungseinheit vom Typ: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T <i>Integrated NS protection: Assigned to power generation unit of type: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T</i>
Netzanschlussregel: Network connection rule:	VDE-AR-N 4105:2018 "Erzeugungsanlagen am Niederspannungsnetz" <i>VDE-AR-N 4105:2018 "Generators connected to the low-voltage distribution network"</i> Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen mit Anschluss an das Niederspannungsnetz <i>Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network</i>
Prüfanforderung: Test requirement:	DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Netzintegration von Erzeugungsanlagen - Niederspannung" <i>DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Network integration of power generation systems - Low voltage"</i> Prüfanforderungen für Erzeugungseinheiten zum Anschluss und Parallelbetrieb am Niederspannungsnetz <i>Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network</i>
Prüfbericht: Test report:	TRPVP02105/23B/03 ausgestellt am 2023-06-08 <i>TRPVP02105/23B/03 issued on 2023-06-08</i>
Der oben bezeichnete Netz- und Anlagenschutz entspricht den Anforderungen der VDE-AR-N 4105. <i>The network and system protection designated above meets the requirements of VDE-AR-N 4105.</i> Dieses NA-Schutzzertifikat darf nicht auszugsweise verwendet werden. <i>This NS protection certificate shall not be used in extracts.</i>	



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E.7 Anforderungen an den Prüfbericht zum NA-Schutz E.7 Requirements for the test report for the NS protection						
Typ NA-Schutz: Type of NS protection:	☐ Zentraler NA-Schutz <i>Central NS protection</i> ☒ Integrierter NA-Schutz: Zugewiesen an Stromerzeugungseinheit vom Typ: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS- 700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T <i>Integrated NS protection: Assigned to power generation unit of type:</i> <i>HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-</i> <i>2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-</i> <i>2T, HMS-1000W-2T</i>					
Software-Version: Software version:	V01.00.02					
Hersteller: Manufacturer:	Hoymiles Power Electronics Inc. No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China					
Messzeitraum: Measurement period:	Von 2022-03-10 bis 2022-08-28 <i>From 2022-03-10 to 2022-08-28</i>					
-	Stirlinggeneratoren, Brennstoffzellen <i>Stirling generators, fuel cells</i>			Umrichter <i>Inverter(s)</i>		
	direkt oder über Umrichter gekoppelte Synchron- und Asynchrongeneratoren mit $P_n \leq 50$ <i>Synchronous and asynchronous</i> <i>generators with $P_n \leq 50$ kW</i> <i>coupled directly or via inverters</i>			direkt gekoppelte Synchron- und Asynchrongeneratoren mit $P_n > 50$ kW <i>Directly coupled synchronous and</i> <i>asynchronous generators with $P_n >$</i> <i>50 kW</i>		
Schutzfunktion Protective function	Einstellwert <i>Set value</i>	Auslösewert <i>Tripping</i> <i>value</i>	*Auslösezeit NA-Schutz <i>*Tripping</i> <i>time NS</i> <i>protection</i>	Einstellwert <i>Set value</i>	Auslösewert <i>Tripping</i> <i>value</i>	*Auslösezeit NA-Schutz <i>*Tripping</i> <i>time NS</i> <i>protection</i>
Spannungssteigerungsschutz U >> Rise-in-voltage protection U >>	1.15 * Un	N/A	N/A	1.25 * Un	288.2V	108.4ms



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Spannungssteigerungsschutz $U > *$ Rise-in-voltage protection $U > *$	$1.10 * U_n$	N/A	N/A	$1.10 * U_n$	-	s
Spannungsrückgangsschutz U < Voltage drop protection U <	$0.8 * U_n$	N/A	N/A	$0.8 * U_n$	183.83V	3068ms
Spannungsrückgangsschutz U << Voltage drop protection U <<	Entfällt N/A			$0.45 * U_n$	103.01V	336.0ms
Frequenzrückgangsschutz f < Frequency decrease protection f <	47.5Hz	N/A	N/A	47.5Hz	47.50Hz	149.0ms
Frequenzsteigerungsschutz f > Frequency increase protection f >	51.5Hz	N/A	N/A	51.5Hz	51.49Hz	154.0ms
* Die Auslösezeit beinhaltet den Zeitraum von der Grenzwertverletzung U/f bis zum Auslösesignal an den Kuppelschalter. <i>* The tripping time includes the period from the limit value violation U/f until the tripping signal to the interface switch.</i> Bei der Planung der Erzeugungsanlage ist die Eigenzeit des Kuppelschalters zum höchsten oben ermittelten Zeitwert zu addieren. <i>When planning the power generation system, the response time of the interface switch shall be added to the maximum time value obtained as indicated above.</i> Die Abschaltzeit (Summe der Auslösezeit NA-Schutz zzgl. Eigenzeit des Kuppelschalters) darf 200ms nicht überschreiten. <i>The disconnection time (sum of tripping time of the NS protection plus response time of the interface switch) shall not exceed 200ms.</i>						
☒ Bei integriertem NA-Schutz For integrated NS protection						
Zugeordnet zur Erzeugungseinheit des Typ: Assigned to power generation unit of type:				HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W- 2T, HMS-700W-2T, HMS- 800W-2T, HMS-900W-2T, HMS-1000W-2T		
Typ integrierter Kuppelschalter: Type integrated interface switch:				Typ Schalteinrichtung 1: Galvanische Trennung Hochfrequenz transformator Type of switch 1: Galvanic isolation high frequency transformer		



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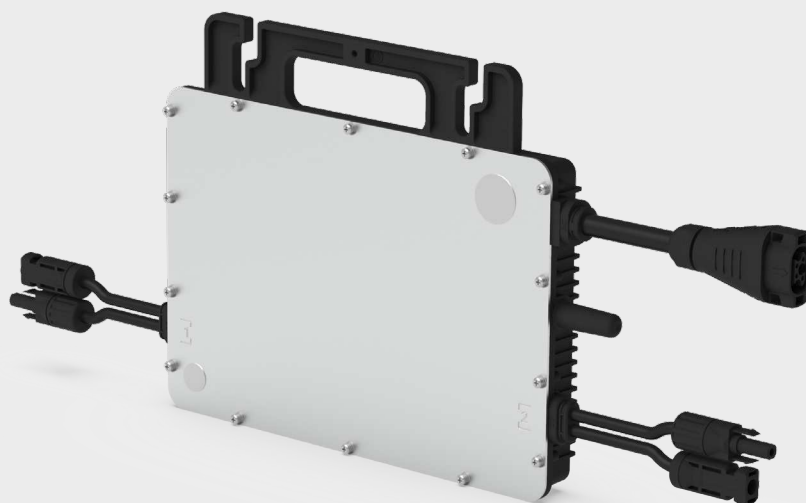
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	Typ Schalteinrichtung 2: Relais Type of switch 2: <i>Relay</i>
Eigenzeit des Kuppelschalters bei integriertem NA-Schutz: <i>Response time of interface switch for integrated NS protection:</i>	8ms

- ☒ Die Überprüfung der Gesamtwirkungskette "integrierter NA-Schutz - Kuppelschalter" führte zu einer erfolgreichen Abschaltung.
Verification of the entire functional chain "integrated NS protection – interface switch" has resulted in successful disconnection.



Datenblatt Mikro-Wechselrichter

HMS-600
HMS-700
HMS-800
HMS-900
HMS-1000

Beschreibung

Mit einer Ausgangsleistung von bis zu 1000 VA gehört Hoymiles neue Mikrowechselrichter-Serie HMS-1000 zu den leistungsstärksten 2-in-1-Mikro-Wechselrichtern.

Jeder Mikro-Wechselrichter kann an bis zu 2 Modulen angeschlossen werden, wobei unabhängige MPPT- und Überwachungsfunktionen die Stromerzeugung Ihrer Anlage maximieren.

Die neue Sub-1G-Funklösung ermöglicht eine stabilere Kommunikation mit dem Hoymiles-Gateway DTU.

Merkmale

01

Hochleistungs-2-in-1-Mikro-Wechselrichter mit einer Ausgangsleistung von bis zu 1000 VA

02

Mit Blindleistungssteuerung, konform mit EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019 usw.

03

Sicherer für Aufdach-Solarstationen mit Schnellabschaltung und isoliertem Transformator

04

Unabhängige MPPT und Überwachung sorgen für eine höhere Energieausbeute und einfachere Wartung

05

2-in-1-Design ermöglicht schnellere Installation

06

Die Sub-1G-Funklösung ermöglicht eine stabile Kommunikation in gewerblichen und industriellen Umgebungen

Technische Daten

Modell	HMS-600-2T	HMS-700-2T	HMS-800-2T	HMS-900-2T	HMS-1000-2T
Angaben zum Eingangsstrom (DC)					
Üblicherweise verwendete Modulleistung (W)	240 bis 405+	280 bis 470+	320 bis 540+	360 bis 600+	400 bis 670+
Maximale Eingangsspannung (V)	60	60	65	65	65
MPPT-Spannungsbereich (V)	16 - 60				
Einschaltspannung (V)	22				
Maximaler Eingangsstrom (A)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximaler Eingangskurzschlussstrom (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Anzahl MPPTs	2				
Anzahl Eingänge je MPPT	1				
Angaben zum Ausgangsstrom (AC)					
Nennausgangsleistung (VA)	600	700	800	900	1000
Nennausgangsstrom (A)	2,61	3,04	3,48	3,91	4,35
Nennausgangsspannung/-bereich (V) ¹	230/180 - 275				
Nennfrequenz/-bereich (Hz) ¹	50/45 - 55				
Leistungsfaktor (einstellbar)	> 0,99 standardmäßig 0,8 voreilend ... 0,8 nacheilend				
Klirrfaktor	< 3 %				
Maximale Einheiten pro 10-AWG-Strang ²	12	10	9	8	7
Maximale Einheiten pro 12-AWG-Strang ²	7	6	5	5	4
Wirkungsgrad					
CEC-Spitzenwirkungsgrad	96,7 %	96,7 %	96,7 %	96,5 %	96,5 %
MPPT-Nennwirkungsgrad	99,8 %				
Leistungsaufnahme bei Nacht (mW)	< 50				
Mechanische Daten					
Umgebungstemperaturbereich (°C)	-40 bis +65				
Abmessungen (B × H × T mm)	261 × 180 × 31				
Gewicht (kg)	3,1				
Schutzart	Außenbereich IP67 (NEMA 6)				
Kühlung	Natürliche Konvektion - Keine Lüfter				
Merkmale					
Kommunikation	Sub-1G				
Art der Isolierung	Galvanisch isolierter HF-Transformator				
Überwachung	Hoymiles S-Miles Cloud ³				
Konformität	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				

*1 Nennspannung/-frequenzbereich können je nach örtlichen Anforderungen variieren.

*2 Die genaue Anzahl der Mikro-Wechselrichter pro Strang entnehmen Sie bitte den örtlichen Anforderungen.

*3 Hoymiles-Überwachungssystem