

ist Hersteller und verantwortlich für:

Konformitätserklärung / Declaration of Conformity

Produkt-Typ:	Plug & Play Photovoltaik-Set für Netzparallelbetrieb steckbar mittels Haushaltsstecker in Endstromkreis. Batteriesystem zw. Panels und Wechselrichter gesteckt.
Modell:	450 Wp Plug & Play (CN), 1 Panel / Hoymiles / Zendure, 1kWh
Komponenten:	• 1x Trina 450NEG9R / 450 Wp / IP-67 / Schutzklasse II • 1x Hoymiles HM-400 mit N/A Schutz und eingebauter RCMU / IP67 Schutzart / Schutzklasse II / Input max. 60VDC, Output max. 230VAC, 50-60Hz, 400VA, 1,74A • 1x Anschlusskabel vorkonfektioniert mit Betteri Buchse IP67, 5m, 10m, 15m oder 20m / 3x1,5mm² Leitung / AC Seitig CH-Typ 13 Stecker IP 55 • 1x Zendure PV Hub 2000, max 500W pro MPPT, Max DC 16-60V • 1x Zendure Erweiterungsbatterie AB1000(S), 960 Wh

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-400W-1T	VDE-ARN-N 4105: 2018-11, VDE V 0124-100:2019 & EN50549-1:2019, VFR 2019 IEC/EN 62109-1:2010/-2:2011, IEC/EN 61000-6-1:2019;EN 61000-6-2:200; 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
Zendure PV Hub 1200	EN 62109-1:2010 EN 62093:2005 EN 62509:2011 EN IEC 62311:2020 EN 50665:2017 ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03) ETSI EN 301 489-17 V3.2.4 (2020-09) ETSI EN 300 328 V2.2.2 (2019-07) ETSI EN 300 440 V2.2.1 (2018-07) IEC 62321-3-1:2013 IEC 62321-4:2013+AMD1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017
Erweiterungsbatterie AB1000(S)	EN IEC 62368-1:2020+A11:2020 EN 55032:2015+A11:2020 EN 55035: 2017+A11: 2020 EN IEC 61000-3-2: 2019 EN 61000-3-3: 2013 +A1:2019 IEC 62321-3-1:2013 IEC 62321-4:2013+AMD1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017
ROHS Konformität	Gesamtes Set konform gemäss IEC EN 63000: 2018

Michael Sebel, Geschäftsführung
erneuer.bar services GmbH

M. Sebel

450 Wp Plug & Play (CN), 1 Panel / Hoymiles / Zendure, 1kWh / 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)



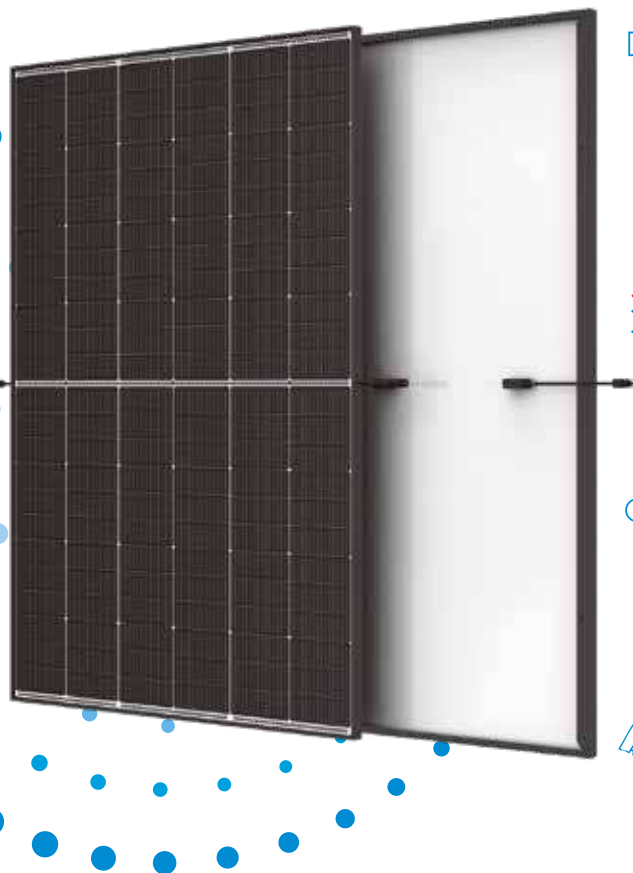
Maximaler Ertrag

- 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

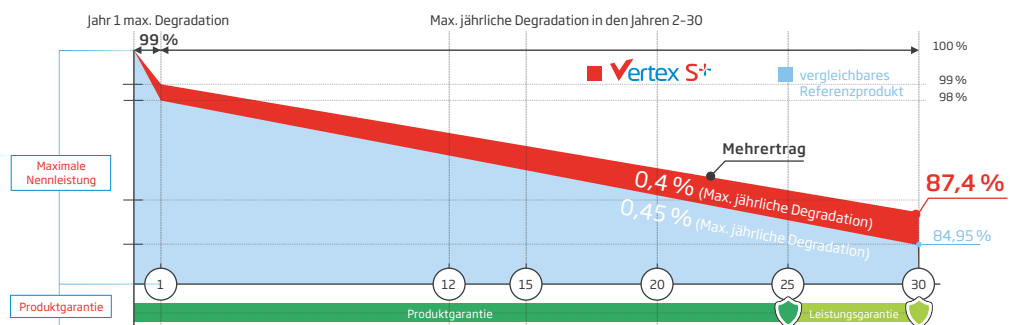


Erweiterte Garantie für Vertex S+

1 %
Max. Degradation in Jahr 1

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

25 Jahre
Produktgarantie

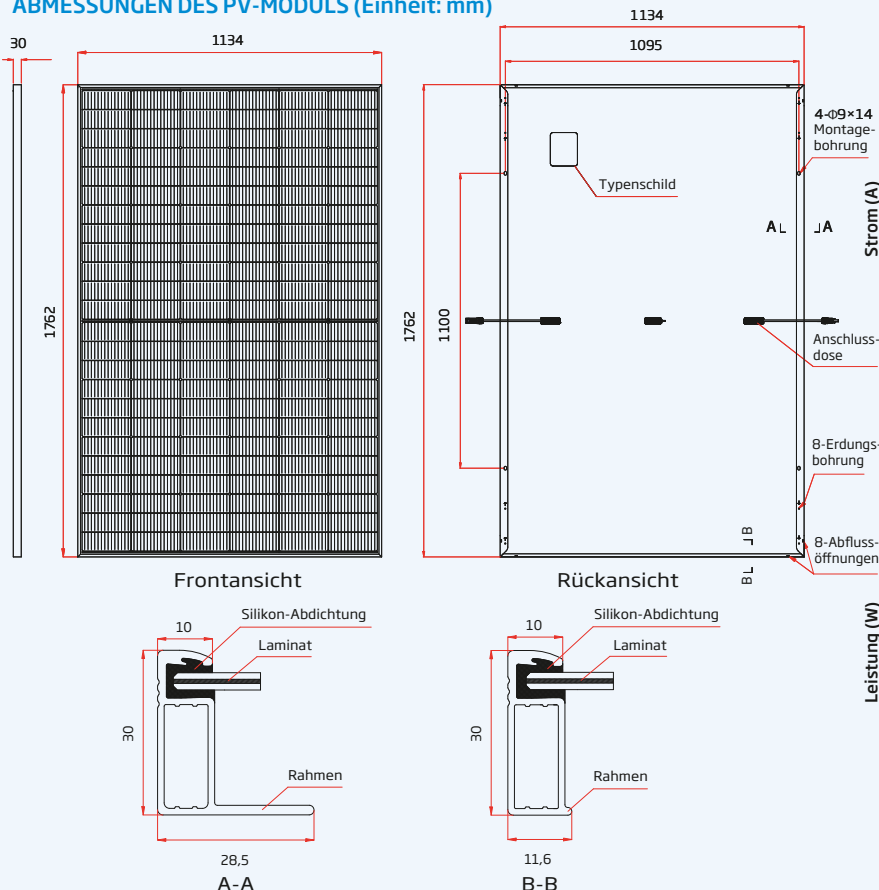


Umfassende Produkt- und Systemzertifikate

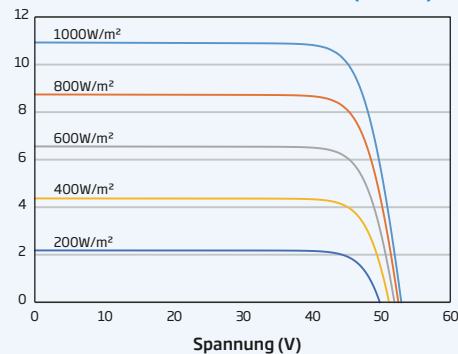


IEC61215/IEC61730/IEC61701/IEC62716
 ISO 9001: Qualitätsmanagementsystem
 ISO 14001: Umweltmanagementsystem
 ISO14064: Verifizierung der CO₂-Bilanz
 ISO45001: Arbeitsschutzmanagementsystem
 ISO 14067: Carbon Footprint von Produkten
 ISO 14025: Umweltproduktdeklaration

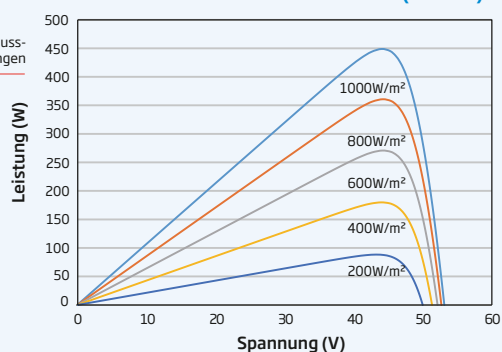
ABMESSUNGEN DES PV-MODULS (Einheit: mm)



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-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

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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.

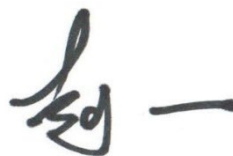
Address: No.18 Kangjing Road, Hangzhou 310015, Zhejiang Province, P.R. China

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.

No.18 Kangjing Road, Hangzhou 310015, China

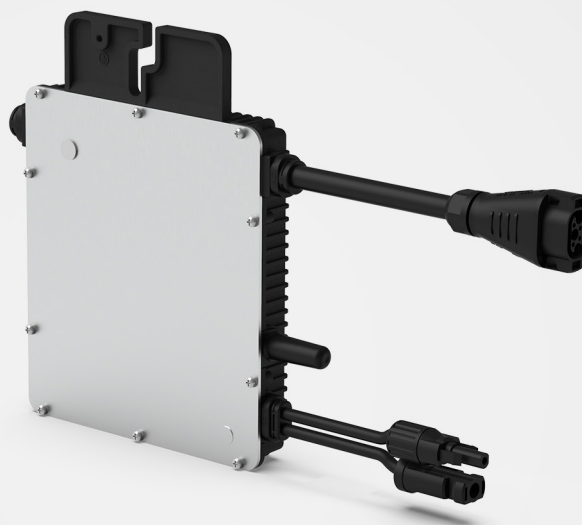
Tel: +86 571 28056101

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



Datenblatt Mikro-Wechselrichter

HMS-300
HMS-350
HMS-400
HMS-450
HMS-500

Beschreibung

Mit einer Ausgangsleistung von bis zu 500 VA gehört Hoymiles neue Mikro-Wechselrichter-Serie HMS-500 zu den besten 1-in-1-Mikro-Wechselrichtern.

Alle aufgeführten Modelle sind mit einer Blindleistungssteuerung ausgestattet und erfüllen die Anforderungen von EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019 usw.

Die neue Sub-1G-Funklösung ermöglicht eine stabilere Kommunikation unter verschiedenen Umgebungsbedingungen.

Merkmale

01

Hochleistungs-1-in-1-Mikro-Wechselrichter mit einer Ausgangsleistung von bis zu 500 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

An ein Modul angeschlossen; flexibel für verschiedene Anwendungen

05

Die Sub-1G-Funklösung ermöglicht eine stabile Kommunikation mit dem Hoymiles-Gateway DTU

Technische Daten

Modell	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
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)	11,5	11,5	12,5	13,3	14
Maximaler Eingangskurzschlussstrom (A)	16	16	20	20	20
Angaben zum Ausgangsstrom (AC)					
Nennausgangsleistung (VA)	300	350	400	450	500
Nennausgangsstrom (A)	1,30	1,52	1,74	1,96	2,17
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	24	21	18	16	14
Maximale Einheiten pro 12-AWG-Strang ²	15	13	11	10	9
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)	182 × 164 × 30				
Gewicht (kg)	1,75				
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

EU Declaration of Conformity

Product : Smart PVHub 1200

Model : ZDSPVH1200

Product photo :



We, ZENDURE TECHNOLOGY CO., LIMITED herewith declare under our sole responsibility that the above-mentioned product meets the provisions of the following EC Council Directives and Standards. All supporting documentation is retained under the premises of the manufacturer.

Directives:

2014/53/EU (RED)
2011/65/EU (RoHS)
2015/863/EU (RoHS)

Product Safety and Performance Standard(s):

EN 62109-1:2010
EN 62093:2005
EN 62509:2011

Health Standards: EN IEC 62311:2020
EN 50665:2017

EMC Standards: ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-3 V2.1.1 (2019-03)
ETSI EN 301 489-17 V3.2.4 (2020-09)

Radio Standards: ETSI EN 300 328 V2.2.2 (2019-07)
ETSI EN 300 440 V2.2.1 (2018-07)

RoHS Standards: IEC 62321-3-1:2013
IEC 62321-4:2013+AMD1:2017
IEC 62321-5:2013
IEC 62321-6:2015
IEC 62321-7-1:2015
IEC 62321-7-2:2017
IEC 62321-8:2017

Signed for and on behalf of:

Augus xiong
Sign and steel

Certification Engineer
Position

2023.4.30
Date of issue

EU Declaration of Conformity

Product : Add-on Battery AB2000

Model : ZDAB2000

Product photo :



We, ZENDURE TECHNOLOGY CO., LIMITED herewith declare under our sole responsibility that the above-mentioned product meets the provisions of the following EC Council Directives and Standards. All supporting documentation is retained under the premises of the manufacturer.

Directives:

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2015/863/EU (RoHS)

Product Safety and Performance Standard(s):

EN IEC 62368-1:2020+A11:2020

EMC Standards:

EN 55032:2015+A11:2020
EN 55035: 2017+A11:2020
EN IEC 61000-3-2: 2019
EN 61000-3-3: 2013 +A1:2019

RoHS Standards:

IEC 62321-3-1:2013
IEC 62321-4:2013+AMD1:2017

IEC 62321-5:2013
IEC 62321-6:2015
IEC 62321-7-1:2015
IEC 62321-7-2:2017
IEC 62321-8:2017

European Authorized Representative:

Zendure DE GmbH

Hoferstraße 9B, 71636 Ludwigsburg

Signed for and on behalf of:

<u>Augus xiong</u>	<u>Certification Engineer</u>	<u>2023.12.13</u>
Sign and steel	Position	Date of issue