

Data form for electrical and electronic equipment/components

Aufbauübersicht für elektrische und elektronische Geräte/Komponenten

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Applicant / Auftraggeber: Daxler Enerji A.S
Büyükkayacik OSB. 102. Cad. No:3/1 Selcuklu 42160 Konya
TURKEY

Manufacturer / Hersteller: Daxler Enerji A.S
Büyükkayacik OSB. 102. Cad. No:3/1 Selcuklu 42160 Konya
TURKEY

Authorized person / Bevollmächtigter Mr. Yunus Emre Tarhan

Factory / Fertigungsstätte: Daxler Enerji A.S
Büyükkayacik OSB. 102. Cad. No:3/1 Selcuklu 42160 Konya
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Type of equipment / Geräteart: Mono-crystalline Silicon Photovoltaic (PV) Module
Type/model / Typenbezeichnung: 182x91mm cells module

a) 144 cells module: WM10-144-HC-530, WM10-144-HC-535
WM10-144-HC-540, WM10-144-HC-545, WM10-144-HC-550
WM10-144-HC-555

b) 132 cells module: WM10-132-HC-485, WM10-132-HC-490,
WM10-132-HC-495, WM10-132-HC-500

c) 120 cells module: WM10-120-HC-440, WM10-120-HC-445
WM10-120-HC-450, WM10-120-HC-455,

d) 108 cells module: WM10-108-HC-395, WM10-108-HC-400
WM10-108-HC-405, WM10-108-HC-410

166x83 mm cells module

e) 144 cells module: WM6-144-HC-430, WM6-144-HC-435,
WM6-144-HC-440, WM6-144-HC-445, WM6-144-HC-450,

f) 132 cells module: WM6-132-HC-395, WM6-132-HC-400,
WM6-132-HC-405, WM6-132-HC-410

g) 120 cells module: WM6-120-HC-360, WM6-120-HC-365,
WM6-120-HC-370, WM6-120-HC-375

210x105mm cells module

h) 132 cells module: WM12-132-HC-645, WM12-132-HC-650,
WM12-132-HC-655,, WM12-132-HC-660, WM12-132-HC-665

i) 120 cells module: WM12-120-HC-585,, WM12-120-HC-590

Test Report No. / Prüfbericht Nr.: 704062134701-00A1

Name of Project manager / Hongwei Li
Name Projektleiter:



Place / Ort: Konya

Name, seal and signature of Certificate Holder /
Name, Stempel und Unterschrift des Zertifikatinhabers:

Date / Datum: 2021-12-25
Revised date: 2022-07-28



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WM12-120-HC-595, WM12-120-HC-600, WM12-120-HC-605,

Maximum System Voltage: 1500 V DC

Dimensions / Abmessungen [HxWxD / HxBxT]:

- a) 2279x1134x35 [mm]
- b) 2093x1134x35 [mm]
- c) 1912x1134x35 [mm]
- d) 1724x1134x35 [mm]
- e) 2094x1038x35 [mm]
- f) 1915x1038x35 [mm]
- g) 1755x1038x35 [mm]
- h) 2401x1303x35 [mm]
- i) 2189x1303x35 [mm]

Weight / Gewicht:

- a) 26.5kg (approx)
- b) 25.4kg (approx)
- c) 24.2kg (approx)
- d) 21.5kg (approx)
- e) 23.5kg (approx)
- f) 22.0kg (approx)
- g) 19.5kg (approx)
- h) 34.0 kg (approx)
- i) 31.4 kg (approx)

Ambient temperature / Umgebungstemperatur min.: **-40 °C** max.: **+40 °C**

Operation / Einsatz: < 2,000 m above sea level / < 2.000 m üNN
up to 2000 m / bis zu **2000** m

Protection class / Schutzklasse:	I:	PE-connection	Schutzleiteranschluss	<input type="checkbox"/>
	II:	Double insulation	Schutzisoliert	<input checked="" type="checkbox"/>
	III:	SELV / internally powered	Schutzkleinspannung / interne Stromversorgung	<input type="checkbox"/>

Degree of pollution / Verschmutzungsgrad: **1** **2** **3** **4**

Overvoltage category / Überspannungskategorie: **I** **II** **III** **IV**

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Additional information

Cell technology:	Monocrystalline Silicon	<input checked="" type="checkbox"/>
	Polycrystalline Silicon	<input type="checkbox"/>
	Thin-film (amorphous Silicon)	<input type="checkbox"/>
	CIGS	<input type="checkbox"/>
	CdTe	<input type="checkbox"/>
	Other	<input type="checkbox"/>
Types of terminations:	Type A: wire of flying lead	<input checked="" type="checkbox"/>
	Type B: tags, threaded stubs, screws, etc.	<input type="checkbox"/>
	Type C: connector	<input type="checkbox"/>
	Junction box	<input checked="" type="checkbox"/>
Protection devices:	By-pass Diode	<input checked="" type="checkbox"/>
	Fuse	<input type="checkbox"/>
	Other	<input type="checkbox"/>
Fire safety class according to <u>UL790</u>:	Class A	<input type="checkbox"/>
	Class B	<input type="checkbox"/>
	Class C	<input checked="" type="checkbox"/>
Frame:	Framed	<input checked="" type="checkbox"/>
	Frameless	<input type="checkbox"/>
Front/Rear cover bonding classification:	Rigid/Flexible	<input checked="" type="checkbox"/>
	Rigid/Rigid	<input type="checkbox"/>
	Flexible/Flexible	<input type="checkbox"/>
Designed mechanical load and safety factor:	Positive: 3600Pa, 1.5	
	Negative: 1600Pa, 1.5	

Limited materials combinations: N/A

Form ID: 37983 - Rev. 1 - Form Effective: 03 Apr 2020

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Safety relevant (critical) components / Sicherheitsrelevante (kritische) Komponenten

Kind of component / Bauteil	Manufacturer / Hersteller	Mechanical, electrical and chemical specification / Mechanische, elektrische und chemische Spezifikation	Test report and/or mark from / Prüfbericht und /oder -zeichen von
1-1 cell	Zhejiang Aiko Solar Energy Technology Co., Ltd	Mono-Si, Cell type: M166-223-9BB-122F-BBD18, P type bifacial Cell Cell dimensions L x W: 166x83±0.25 (mm) Cell thickness: 185 ± 18.5 (µm) Cell area:137.78 (cm ²)	Tested with appliance
1-2 cell	Zhejiang Aiko Solar Energy Technology Co., Ltd	Mono-Si, Cell type: MC182-10BB-136F, 10BB, P type bifacial Cell Cell dimensions L x W: 182x91±0.25 (mm) Cell thickness: 185 ± 18.5 (µm) Cell area:165.62 (cm ²)	Tested with appliance
1-3 cell	Zhejiang Aiko Solar Energy Technology Co., Ltd	Mono-Si, Cell type: MC210-12BB-174F, 12BB, P type bifacial Cell Cell dimensions L x W: 210x105±0.25 (mm) Cell thickness: 190 ± 19.0 (µm) Cell area:220.50 (cm ²)	Tested with appliance
2 Superstrate	Şişecam	Material: Sandy/Prizma AR Coated, Thickness: 3.2 (mm)	Tested with appliance
3 Substrate (backsheet)	Cybird Technologies Inc.	Type: Cynagard 2x5A(R)(x=0 or 1 or 3) Material: (Air side) PVDF film /PET/Fluorine skin film(Cell Side), Thickness: 22.5 /275/4(um),total 320±20um, Color:White maximum system voltage 1500 VDC.	TÜV Rheinland
4 Encapsulant	HANWHA ADVANCED MATERIALS CORPORATION	Type: HEP-02T(frontside), Material: EVA. Thickness: 0.4~0.6mm. Type: HEP-02(backside), Material: EVA. Thickness: 0.4~0.6mm.	Tested with appliance
5-1 Junction box	Ekinler Endüstri San.ve Tic. A.S	Type:JBS, DC1500V, 15A or 25A, IP68(1m,1h), -40 to 85°C,	TÜV SÜD
6 Potting Material inside	Shanghai Huitian New Material Co., Ltd.	Type: 5299W-S, Material:Silicon	Tested with appliance
7 Adhesive for junction box	Shanghai Huitian New Material Co., Ltd.	Type: HT906-Z, Material:Silicon	Tested with appliance
8 Cable for photovoltaic equipment	Ege Kablo Endüstri Malz. San. Ve Tic. A.S.	Type H1Z2Z2-K , 1*4mm ² , DC 1500V, -40 °C to 90 °C	TÜV SÜD
9-1Connector for Photovoltaic system	Elinler Endüstri San. Ve Tic.	Type: PC1,1500V DC,35A,IP68(1m, 1h),-40 to 85°C	TÜV SÜD
9-2Connector for Photovoltaic system	Stäubli Electrical Connectors AG	Type:PV-KST4-EVO2/6II-UR, PV-KBT4-EVO2/6II-UR 1500V DC,45A or 53A,IP68(1m, 1h),-40 to 85°C	TÜV SÜD
9-3Connector for Photovoltaic system	QC Solar(Suzhou) Corporation	Type: QC4.10-cd(QC4.10-35, QC4.10-45), 1500V DC,41A,IP68(1m, 1h),-40 to 85°C Type:QC4.10-cd(QC4.10-36, QC4.10-46) 1500V DC,46A,IP68(1m, 1h),-40 to 85°C	TÜV SÜD
10 Bypass diode	Yangzhou Yangjie Electronic Technology Co., Ltd.	Schottky, Type: 20SQ045 Max. peak reverse voltage 45V, Forward Rectified current 20A. Max junction temperature 200°C Schottky, Type: 30SQ045 Max. peak reverse voltage 45V, Forward Rectified current 30A.	Tested with appliance

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5-2 Junction box	SUZHOU UKT NEW ENERGY TECHNOLOGY CO.,LTD	Max junction temperature 200°C Type: PV-JB12x(X=A or B or C or D or E or F or H or A-1 or T or A-25 or B-25 or L or M or N1 or N2 or S1 or S2), 1500V for PV-JB12x(x=A or C or E or H or A-1 or T or A-25 or L or N1 or S1) 30A for PV-JB12x(x=S1 or S2) 25A for PV-JB12x(x=A-25 or B-25) 20A for PV-JB12x(x=N1 or N2) -40 to 85°C, IP68(1m,1h)	TÜV SÜD
6 Potting Material inside	Shanghai Huitian New Material Co., Ltd.	Type: 5299W-S, Material:Silicon	Tested with appliance
7 Adhesive for junction box	Shanghai Huitian New Material Co., Ltd.	Type: HT906-Z, Material:Silicon	Tested with appliance
8 Cable for photovoltaic equipment	Ningbo Kibor Wire & Cable Co., Ltd.	Type :62930 IEC 131 1*4mm ² DC 1500V, -40 °C to 90 °C Max. Temperature at Conductor: 120 °C	TÜV SÜD
9 Connector for Photovoltaic system	Stäubli Electrical Connectors AG	Model: PV-KST4-EVO2/6II_UR(male), PV-KBT4-EVO2/6II_UR(female), 1500V DC,45A,IP68(1m, 1h),-40 to 85°C	TÜV SÜD
10 Bypass diode	SUZHOU UKT NEW ENERGY TECHNOLOGY CO.,LTD	Schottky, Type: TM3045-30 for PV-JB12x(x=S1 or S2) Max. peak reverse voltage 45V, Forward Rectified current 30A. Max junction temperature 200°C No. of bypass diodes: 3 Schottky, Type: TM3045-25 for PV-JB12x(x=A-25 or B-25) Max. peak reverse voltage 45V, Forward Rectified current 30A. Max junction temperature 200°C No. of bypass diodes: 3 Schottky, Type: TM3045-20 for PV-JB12x(x=N1 or N2) Max. peak reverse voltage 45V, Forward Rectified current 30A. Max junction temperature 200°C No. of bypass diodes: 3	Tested with appliance
11 Cell interconnector	Koswire Co., Ltd.	Cross section: $\Phi 0.35 \pm 0.02$ mm Material: Base composition: TU1 ($\geq 99.97\%$), soldering material:Sn60Pb40 Coating thickness: $15 \pm 5 \mu\text{m}$ for single side	Tested with appliance
12 String connector	Koswire Co., Ltd.	Cross section: 0.35x6.0(mm), Material: Base composition: TU1 ($\geq 99.97\%$), soldering material:Sn60Pb40, Coating thickness: $15 \pm 5 \mu\text{m}$ for single side	Tested with appliance
13 Fluxing material	ASAHI SOLDER.	Type: SF105	Tested with appliance
14 Frame	Ulusan Alüminyum	Anodized aluminum alloy, type 6063-T5, assembled by key corners	Tested with appliance
15 Adhesive for frame	Shanghai Huitian New Material Co., Ltd.	Type: HT906-Z, Material:Silicon	Tested with appliance
16 Insulation material between string connectors	Cybrid Technologies Inc.	Type:115F	Tested with appliance
17 Fixing tape	Cybrid Technologies Inc.	Type: FF-3665	Tested with appliance

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18 Label	Teknik Barkod	Material: PET MATT SILVER TC 50/RC18/HD 70 WHITE	Tested with appliance

Label / Typenschild



Model:WM10-144-HC-540

Maximum Power / Maksimum Güç	540 W
Power Selection / Güç Sınıflandırması	0~+5 W
Maximum Power Voltage / Maksimum Güç Gerilimi	41.55 V
Maximum Power Current / Maksimum Güç Akımı	13.00 A
Open-Circuit Voltage / Açık Devre Gerilimi	49.5 V
Short-Circuit Current / Kısa Devre Akımı	13.81 A
Tolerances / Toleranslar (Pmpp, Isc, Voc)	± 3%
Max. System Voltage / Maksimum Sistem Gerilimi	1500 V
Max. Overcurrent Protection Rating (Maksimum Aşırı Akım Koruması)	25 A
PV Module Classification	Class II
Dimensions / Ölçüler	2279x1134x35 mm
Weight / Ağırlık	26.5 Kg
STC / Standart Test Koşulları (According to IEC 60904-3)	E=1000W/m2, Tc=25°C, AM=1.5
Do not disconnect under load	



Address/Adres: Büyükkayacık OSB Mah. 102. Cad. No:3/1 Selçuklu/KONYA

Made in Türkiye

DAXLER, bir Daxler Energy A.Ş markasıdır.
DAXLER is a registered trademark of Daxler Energy A.Ş.

Model:WM6-144-HC-440

Maximum Power / Maksimum Güç	440 W
Power Selection / Güç Sınıflandırması	0~+5 W
Maximum Power Voltage / Maksimum Güç Gerilimi	41.4 V
Maximum Power Current / Maksimum Güç Akımı	10.63 A
Open-Circuit Voltage / Açık Devre Gerilimi	49.7 V
Short-Circuit Current / Kısa Devre Akımı	11.27 A
Tolerances / Toleranslar (Pmpp, Isc, Voc)	± 3%
Max. System Voltage / Maksimum Sistem Gerilimi	1500 V
Max. Overcurrent Protection Rating (Maksimum Aşırı Akım Koruması)	20 A
PV Module Classification	Class II
Dimensions / Ölçüler	2094x1038x35 mm
Weight / Ağırlık	23.5 Kg
STC / Standart Test Koşulları (According to IEC 60904-3)	E=1000W/m2, Tc=25°C, AM=1.5
Do not disconnect under load	



Address/Adres: Büyükkayacık OSB Mah. 102. Cad. No:3/1 Selçuklu/KONYA

Made in Türkiye

DAXLER, bir Daxler Energy A.Ş markasıdır.
DAXLER is a registered trademark of Daxler Energy A.Ş.

Model:WM12-132-HC-650

Maximum Power / Maksimum Güç	650 W
Power Selection / Güç Sınıflandırması	0~+5 W
Maximum Power Voltage / Maksimum Güç Gerilimi	36.49 V
Maximum Power Current / Maksimum Güç Akımı	17.82 A
Open-Circuit Voltage / Açık Devre Gerilimi	43.49 V
Short-Circuit Current / Kısa Devre Akımı	19.03 A
Tolerances / Toleranslar (Pmpp, Isc, Voc)	± 3%
Max. System Voltage / Maksimum Sistem Gerilimi	1500 V
Max. Overcurrent Protection Rating (Maksimum Aşırı Akım Koruması)	30 A
PV Module Classification	Class II
Dimensions / Ölçüler	2401x1303x35 mm
Weight / Ağırlık	34 Kg
STC / Standart Test Koşulları (According to IEC 60904-3)	E=1000W/m2, Tc=25°C, AM=1.5
Do not disconnect under load	



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Name Projektleiter: Hongwei Li

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Form



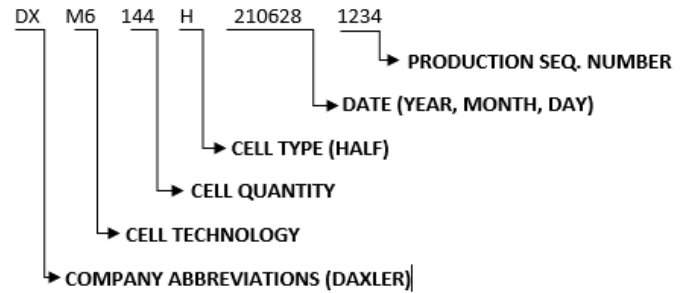
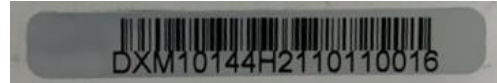
Product Service

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Serial No. code bar:



M6: 166x83mm cell
M10: 182x91mm cell
M12: 210x105mm cell

Equipotential bonding symbol:



Warning label attached on the cable:



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Product Electrical Ratings at STC:						
Module	WM6-120-HC-360	WM6-120-HC-365	WM6-120-HC-370	WM6-120-HC-375	-	-
open-circuit voltage (tolerance±3%) [V]:	41.2	41.4	41.6	41.8	-	-
short-circuit current (tolerance±3%) [A]:	11.16	11.26	11.34	11.41	-	-
voltage at max. power [V]:	34.2	34.4	34.6	34.8	-	-
current at max. power [A]:	10.53	10.62	10.70	10.78	-	-
max. power (tolerance±3%) [W]:	360	365	370	375	-	-
Maximum Over-Current Protection Rating [A]	20	20	20	20	-	-
Product Electrical Ratings at STC:						
Module	WM6-132-HC-395	WM6-132-HC-400	WM6-132-HC-405	WM6-132-HC-410	-	-
open-circuit voltage (tolerance±3%) [V]:	45.2	45.40	45.60	45.80	-	-
short-circuit current (tolerance±3%) [A]:	11.17	11.28	11.39	11.49	-	-
voltage at max. power [V]:	37.73	37.93	38.13	38.29	-	-
current at max. power [A]:	10.48	10.55	10.63	10.72	-	-
max. power (tolerance±3%) [W]:	395	400	405	410	-	-
Maximum Over-Current Protection Rating [A]	20	20	20	20	-	-
Product Electrical Ratings at STC:						
Module	WM6-144-HC-430	WM6-144-HC-435	WM6-144-HC-440	WM6-144-HC-445	WM6-144-HC-450	-
open-circuit voltage (tolerance±3%) [V]:	49.5	49.6	49.7	49.9	50.1	-
short-circuit current (tolerance±3%) [A]:	11.12	11.18	11.27	11.34	11.41	-
voltage at max. power [V]:	41.13	41.3	41.4	41.6	41.8	-
current at max. power [A]:	10.46	10.54	10.63	10.70	10.77	-
max. power (tolerance±3%) [W]:	430	435	440	445	450	-
Maximum Over-Current Protection Rating [A]	20	20	20	20	20	-

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Product Electrical Ratings at STC:						
Module	WM10-108-HC-395	WM10-108-HC-400	WM10-108-HC-405	WM10-108-HC-410	-	-
open-circuit voltage (tolerance±3%) [V]:	37.01	37.12	37.22	37.3	-	-
short-circuit current (tolerance±3%) [A]:	13.50	13.60	13.70	13.81	-	-
voltage at max. power [V]:	30.69	30.81	30.93	31.08	-	-
current at max. power [A]:	12.88	12.99	13.1	13.2	-	-
max. power (tolerance±3%) [W]:	395	400	405±	410	-	-
Maximum Over-Current Protection Rating [A]	25	25	25	25	-	-
Product Electrical Ratings at STC:						
Module	WM10-120-HC-440	WM10-120-HC-445	WM10-120-HC-450	WM10-120-HC-455	-	-
open-circuit voltage (tolerance±3%) [V]:	41.2	41.4	41.6	41.8	-	-
short-circuit current (tolerance±3%) [A]:	13.54	13.60	13.66	13.72	-	-
voltage at max. power [V]:	34.8	35	35.2	35.4	-	-
current at max. power [A]:	12.65	12.72	12.79	12.86	-	-
max. power (tolerance±3%) [W]:	440	445	450	455	-	-
Maximum Over-Current Protection Rating [A]	25	25	25	25	-	-
Product Electrical Ratings at STC:						
Module	WM10-132-HC-485	WM10-132-HC-490	WM10-132-HC-495	WM10-132-HC-500	-	-
open-circuit voltage (tolerance±3%) [V]:	45.36	45.5	45.7	45.9	-	-
short-circuit current (tolerance±3%) [A]:	13.6	13.68	13.75	13.82	-	-
voltage at max. power [V]:	37.92	38.12	38.32	38.52	-	-
current at max. power [A]:	12.8	12.86	12.92	12.99	-	-
max. power (tolerance±3%) [W]:	485	490	495	500	-	-
Maximum Over-Current Protection Rating [A]	25	25	25	25	-	-

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Module	WM10-144-HC-530	WM10-144-HC-535	WM10-144-HC-540	WM10-144-HC-545	WM10-144-HC-550	WM10-144-HC-555
open-circuit voltage (tolerance±3%) [V]:	49.33	49.4	49.5	49.8	49.9	50.1
short-circuit current (tolerance±3%) [A]:	13.60	13.70	13.81	13.86	13.9	13.93
voltage at max. power [V]:	41.03	41.29	41.55	41.84	42.11	42.16
current at max. power [A]:	12.92	12.96	13.00	13.04	13.08	13.17
max. power (tolerance±3%) [W]:	530	535	540	545	550	555
Maximum Over-Current Protection Rating [A]	25	25	25	25	25	25
Product Electrical Ratings at STC:						
Module	WM12-120-HC-585	WM12-120-HC-590	WM12-120-HC-595	WM12-120-HC-600	WM12-120-HC-605	-
open-circuit voltage (tolerance±3%) [V]:	40.7	40.9	41.1	41.3	41.5	-
short-circuit current (tolerance±3%) [A]:	18.32	18.37	18.42	18.47	18.52	-
voltage at max. power [V]:	34.30	34.5	34.7	34.9	35.1	-
current at max. power [A]:	17.06	17.11	17.15	17.2	17.25	-
max. power (tolerance±3%) [W]:	585	590	595	600	605	-
Maximum Over-Current Protection Rating [A]	30	30	30	30	30	-
Product Electrical Ratings at STC:						
Module	WM12-132-HC-645	WM12-132-HC-650	WM12-132-HC-655	WM12-132-HC-660	WM12-132-HC-665	-
open-circuit voltage (tolerance±3%) [V]:	43.26	43.49	43.7	43.9	44.1	-
short-circuit current (tolerance±3%) [A]:	19.01	19.03	19.09	19.14	19.19	-
voltage at max. power [V]:	36.27	36.49	36.62	36.82	37.02	-
current at max. power [A]:	17.79	17.82	17.89	17.93	17.97	-
max. power (tolerance±3%) [W]:	645	650	655	660	665	-
Maximum Over-Current Protection Rating [A]	30	30	30	30	30	-

Form ID: 37983 - Rev. 1 - Form Effective: 03 Apr 2020

Test Report No. / Prüfbericht Nr.: 704062134701-00A1

Place / Ort: Konya

Date / Datum: 2021-12-25

Revised date: 2022-07-28

Name of Project manager / Hongwei Li
Name Projektleiter:Name, seal and signature of Certificate Holder /
Name, Stempel und Unterschrift des Zertifikatinhabers: