



## Certificate of Factory Production Control

This certificate has been issued to

***Ningbo Ulica Solar Co., Ltd.***

of

No.181-197, Shanshan Road  
 Wangchun Industrial District  
 Ningbo City  
 Zhejiang Province  
 315177  
 People's Republic of China

whose production management system has been assessed and found to comply with the Factory Production Control Requirements of the MCS Product Certification Scheme in respect of:


### Production of Photovoltaic Solar Panels

at the address(s) listed on the Annex of this certificate

and includes the ranges of

### Photovoltaic Solar Panels

as detailed on the attached annex to this certificate

Signed: 

on behalf of TUV SUD BABT UNLIMITED

Certificate Number: BAPT 8532 R13

Valid from: 15 April 2024

This Certificate expires on: 25 February 2026



**CERTIFIED**

The holder of this certificate is authorised to use the MCS Approved Product Mark. This certificate has been issued in accordance with the Testing, Certification, Validation and Verification Regulations of TÜV SÜD. Conditions of validity of this certificate, if any, are listed in the Annex.

This certificate constitutes page 1 of the combined Certificate and Annex.

For further details related to this certification please contact [BABT@tuvsud.com](mailto:BABT@tuvsud.com)

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



## 1 Manufacturing Location

Facility 1
Ningbo Ulica Solar Co., Ltd. No.181-197, Shanshan Road Wangchun Industrial District Ningbo City Zhejiang Province 315177 P.R. China

## 2 Established Conformity

### 2.1 Product Certification Scheme Requirements

Microgeneration Certification Scheme	Revision	Applicability
MCS 005 – Solar Photovoltaic Modules	Issue 3.1	<input checked="" type="checkbox"/>
MCS 010 – Factory Production Control Requirements	Issue 2.0	<input checked="" type="checkbox"/>
MCS 012 – Pitched Roof Installation Kits	Issue N/A	<input type="checkbox"/>
MCS 017 – Bespoke Building Integrated Photovoltaic Products	Issue N/A	<input type="checkbox"/>

### 2.2 Assessment Report

Assessment Report Number	Issue Number	Issue Date
BABT 8532 R13	1	03-04-2024

## 3 Technical Documentation

### 3.1 User Guide

Installation Instruction	Modified	19/09/2022
Installation Instruction 166P (Double-glass)	Modified	04/03/2024
Installation Instruction 182N 91 (Double-glass)	Modified	04/03/2024
Installation Instruction 182N 94 (Double-glass)	Modified	05/03/2024
Installation Instruction 182N 95.8 (Double-glass)	Modified	04/03/2024
Installation Instruction 182N 105 (Double-glass)	Modified	05/03/2024
Installation Instruction 210N 105 (Double-glass)	Modified	04/03/2024
Installation Instruction 210P (Double-glass)	Modified	04/03/2024
Installation Instruction 182N 91 (Single-glass)	Modified	05/03/2024
Installation Instruction 182N 94 (Single-glass)	Modified	05/03/2024
Installation Instruction 182N 95.8 (Single-glass)	Modified	04/03/2024
Installation Instruction 182N 105 (Single-glass)	Modified	05/03/2024
Installation Instruction 210N 105 (Single-glass)	Modified	04/03/2024

### 3.2 Test Reports

704061806602-00 Part 1 of 2	Issued	16/08/2018
704061806602-00 Part 2 of 2	Issued	17/08/2018

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704061806602-01	Issued	15/08/2019
704061806602-02	Issued	25/08/2019
704061806602-03	Issued	10/10/2019
704061806602-04	Issued	25/02/2020
704061806602-05	Issued	15/04/2020
704061806602-06	Issued	17/07/2020
704061806602-07	Issued	23/11/2020
704061806602-08	Issued	09/04/2021
704061806602-09	Issued	30/07/2021
704061806602-10	Issued	16/09/2021
704061806602-11	Issued	25/05/2022
704061806602-12	Issued	25/08/2022
704061806602-13	Issued	25/06/2023
704061806603-00 Part 1 of 2	Issued	16/08/2018
704061806603-00 Part 2 of 2	Issued	17/08/2018
704061806603-01	Issued	15/12/2019
704062002304-00	Issued	10/06/2020
704062002304-01	Issued	10/07/2020
704062002304-02	Issued	23/11/2020
704062002304-03	Issued	25/06/2023
704062002304-04	Issued	25/08/2023
704062315810-00	Issued	07/02/2024
704062315811-00	Issued	07/02/2024

## 4 Products Within Scope of Certification

### 4.1 MCS 005: Solar Photovoltaic Modules

Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	UL-xxxM-96 (8.8)	280 - 305	BABT 8532-52
Monocrystalline	UL-xxxM-108 (8.8)	315 - 345	BABT 8532-53
Monocrystalline	UL-xxxM-120 (8.8)	350 - 380	BABT 8532-54
Monocrystalline	UL-xxxM-144 (8.8)	420 - 460	BABT 8532-55
Monocrystalline	UL-xxxM-96HV (8.8)	280 - 305	BABT 8532-56
Monocrystalline	UL-xxxM-108HV (8.8)	315 - 345	BABT 8532-57
Monocrystalline	UL-xxxM-120HV (8.8)	350 - 380	BABT 8532-58
Monocrystalline	UL-xxxM-144HV (8.8)	420 - 460	BABT 8532-59
Monocrystalline	UL-xxxM-156 (9.72)	565 - 600	BABT 8532-60
Monocrystalline	UL-xxxM-144 (9.72)	525 – 555	BABT 8532-61
Monocrystalline	UL-xxxM-132 (9.72)	480 – 505	BABT 8532-62
Monocrystalline	UL-xxxM-120 (9.72)	435 – 460	BABT 8532-63
Monocrystalline	UL-xxxM-108 (9.72)	390 – 415	BABT 8532-64
Monocrystalline	UL-xxxM-96 (9.72)	350 – 370	BABT 8532-65
Monocrystalline	UL-xxxM-156HV (9.72)	565 - 600	BABT 8532-66
Monocrystalline	UL-xxxM-144HV (9.72)	525 – 555	BABT 8532-67
Monocrystalline	UL-xxxM-132HV (9.72)	480 – 505	BABT 8532-68
Monocrystalline	UL-xxxM-120HV (9.72)	435 – 460	BABT 8532-69
Monocrystalline	UL-xxxM-108HV (9.72)	390 – 415	BABT 8532-70

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Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	UL-xxxM-96HV (9.72)	350 – 370	BABT 8532-71
Monocrystalline	UL-xxxM-132 (11.61)	640 - 670	BABT 8532-72
Monocrystalline	UL-xxxM-120 (11.61)	580 - 605	BABT 8532-73
Monocrystalline	UL-xxxM-108 (11.61)	525 - 545	BABT 8532-74
Monocrystalline	UL-xxxM-132HV (11.61)	640 - 670	BABT 8532-75
Monocrystalline	UL-xxxM-120HV (11.61)	580 - 605	BABT 8532-76
Monocrystalline	UL-xxxM-108HV (11.61)	525 - 545	BABT 8532-77
Monocrystalline	UL-xxxM-156AN	590 - 635	BABT 8532-101
Monocrystalline	UL-xxxM-144AN	545 - 585	BABT 8532-102
Monocrystalline	UL-xxxM-132AN	500 - 535	BABT 8532-103
Monocrystalline	UL-xxxM-120AN	455 - 490	BABT 8532-104
Monocrystalline	UL-xxxM-108AN	410 - 440	BABT 8532-105
Monocrystalline	UL-xxxM-96AN	365 - 390	BABT 8532-106
Monocrystalline	UL-xxxM-156AHVN	590 - 635	BABT 8532-107
Monocrystalline	UL-xxxM-144AHVN	545 - 585	BABT 8532-108
Monocrystalline	UL-xxxM-132AHVN	500 - 535	BABT 8532-109
Monocrystalline	UL-xxxM-120AHVN	455 - 490	BABT 8532-110
Monocrystalline	UL-xxxM-108AHVN	410 - 440	BABT 8532-111
Monocrystalline	UL-xxxM-96AHVN	365 - 390	BABT 8532-112
Monocrystalline	UL-xxxM-156BN	605 - 660	BABT 8532-113
Monocrystalline	UL-xxxM-144BN	560 - 610	BABT 8532-114
Monocrystalline	UL-xxxM-132BN	515 - 555	BABT 8532-115
Monocrystalline	UL-xxxM-120BN	465 - 505	BABT 8532-116
Monocrystalline	UL-xxxM-108BN	420 - 455	BABT 8532-117
Monocrystalline	UL-xxxM-96BN	375 - 405	BABT 8532-118
Monocrystalline	UL-xxxM-156BHVN	605 - 660	BABT 8532-119
Monocrystalline	UL-xxxM-144BHVN	560 - 610	BABT 8532-120
Monocrystalline	UL-xxxM-132BHVN	515 - 555	BABT 8532-121
Monocrystalline	UL-xxxM-120BHVN	465 - 505	BABT 8532-122
Monocrystalline	UL-xxxM-108BHVN	420 - 455	BABT 8532-123
Monocrystalline	UL-xxxM-96BHVN	375 - 405	BABT 8532-124
Monocrystalline	UL-xxxM-144CN	570 - 620	BABT 8532-125
Monocrystalline	UL-xxxM-132CN	525 - 565	BABT 8532-126
Monocrystalline	UL-xxxM-120CN	475 - 515	BABT 8532-127
Monocrystalline	UL-xxxM-108CN	430 - 465	BABT 8532-128
Monocrystalline	UL-xxxM-96CN	380 - 410	BABT 8532-129
Monocrystalline	UL-xxxM-144CHVN	570 - 620	BABT 8532-130

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Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	UL-xxxM-132CHVN	525 - 565	BABT 8532-131
Monocrystalline	UL-xxxM-120CHVN	475 - 515	BABT 8532-132
Monocrystalline	UL-xxxM-108CHVN	430 - 465	BABT 8532-133
Monocrystalline	UL-xxxM-96CHVN	380 - 410	BABT 8532-134
Monocrystalline	UL-xxxM-132DN	575 - 620	BABT 8532-135
Monocrystalline	UL-xxxM-120DN	525 - 560	BABT 8532-136
Monocrystalline	UL-xxxM-108DN	470 - 505	BABT 8532-137
Monocrystalline	UL-xxxM-96DN	420 - 450	BABT 8532-138
Monocrystalline	UL-xxxM-132DHVN	575 - 620	BABT 8532-139
Monocrystalline	UL-xxxM-120DHVN	525 - 560	BABT 8532-140
Monocrystalline	UL-xxxM-108DHVN	470 - 505	BABT 8532-141
Monocrystalline	UL-xxxM-96DHVN	420 - 450	BABT 8532-142
Monocrystalline	UL-xxxM-132N	670 - 700	BABT 8532-143
Monocrystalline	UL-xxxM-120N	610 - 635	BABT 8532-144
Monocrystalline	UL-xxxM-108N	550 - 570	BABT 8532-145
Monocrystalline	UL-xxxM-96N	490 - 510	BABT 8532-146
Monocrystalline	UL-xxxM-132HVN	670 - 700	BABT 8532-147
Monocrystalline	UL-xxxM-120HVN	610 - 635	BABT 8532-148
Monocrystalline	UL-xxxM-108HVN	550 - 570	BABT 8532-149
Monocrystalline	UL-xxxM-96HVN	490 - 510	BABT 8532-150
Monocrystalline	UL-xxxM-144DG	430 - 455	BABT 8532-151
Monocrystalline	UL-xxxM-120DG	360 - 375	BABT 8532-152
Monocrystalline	UL-xxxM-108DG	325 - 340	BABT 8532-153
Monocrystalline	UL-xxxM-96DG	290 - 300	BABT 8532-154
Monocrystalline	UL-xxxM-144BDG	475 - 500	BABT 8532-155
Monocrystalline	UL-xxxM-120BDG	400 - 415	BABT 8532-156
Monocrystalline	UL-xxxM-108BDG	360 - 375	BABT 8532-157
Monocrystalline	UL-xxxM-96BDG	320 - 330	BABT 8532-158
Monocrystalline	UL-xxxM-132DG	640 - 670	BABT 8532-159
Monocrystalline	UL-xxxM-120DG	580 - 610	BABT 8532-160
Monocrystalline	UL-xxxM-108DG	525 - 550	BABT 8532-161
Monocrystalline	UL-xxxM-132BDG	705 - 735	BABT 8532-162
Monocrystalline	UL-xxxM-120BDG	640 - 670	BABT 8532-163
Monocrystalline	UL-xxxM-108BDG	575 - 600	BABT 8532-164
Monocrystalline	UL-xxxM-156ADGN	590 - 635	BABT 8532-165
Monocrystalline	UL-xxxM-144ADGN	545 - 585	BABT 8532-166
Monocrystalline	UL-xxxM-132ADGN	500 - 535	BABT 8532-167

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Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	UL-xxxM-120ADGN	455 - 490	BABT 8532-168
Monocrystalline	UL-xxxM-108ADGN	410 - 440	BABT 8532-169
Monocrystalline	UL-xxxM-96ADGN	365 - 390	BABT 8532-170
Monocrystalline	UL-xxxM-156ABDGN	650 - 695	BABT 8532-171
Monocrystalline	UL-xxxM-144ABDGN	605 - 645	BABT 8532-172
Monocrystalline	UL-xxxM-132ABDGN	555 - 590	BABT 8532-173
Monocrystalline	UL-xxxM-120ABDGN	500 - 535	BABT 8532-174
Monocrystalline	UL-xxxM-108ABDGN	450 - 480	BABT 8532-175
Monocrystalline	UL-xxxM-96ABDGN	400 - 425	BABT 8532-176
Monocrystalline	UL-xxxM-156BDGN	605 - 660	BABT 8532-177
Monocrystalline	UL-xxxM-144BDGN	560 - 610	BABT 8532-178
Monocrystalline	UL-xxxM-132BDGN	515 - 555	BABT 8532-179
Monocrystalline	UL-xxxM-120BDGN	465 - 505	BABT 8532-180
Monocrystalline	UL-xxxM-108BDGN	420 - 455	BABT 8532-181
Monocrystalline	UL-xxxM-96BDGN	375 - 405	BABT 8532-182
Monocrystalline	UL-xxxM-156BBDGN	670 - 725	BABT 8532-183
Monocrystalline	UL-xxxM-144BBDGN	620 - 670	BABT 8532-184
Monocrystalline	UL-xxxM-132BBDGN	570 - 610	BABT 8532-185
Monocrystalline	UL-xxxM-120BBDGN	515 - 555	BABT 8532-186
Monocrystalline	UL-xxxM-108BBDGN	465 - 500	BABT 8532-187
Monocrystalline	UL-xxxM-96BBDGN	415 - 445	BABT 8532-188
Monocrystalline	UL-xxxM-144CDGN	570 - 620	BABT 8532-189
Monocrystalline	UL-xxxM-132CDGN	525 - 565	BABT 8532-190
Monocrystalline	UL-xxxM-120CDGN	475 - 515	BABT 8532-191
Monocrystalline	UL-xxxM-108CDGN	430 - 465	BABT 8532-192
Monocrystalline	UL-xxxM-96CDGN	380 - 410	BABT 8532-193
Monocrystalline	UL-xxxM-144CBDGN	630 - 680	BABT 8532-194
Monocrystalline	UL-xxxM-132CBDGN	580 - 620	BABT 8532-195
Monocrystalline	UL-xxxM-120CBDGN	525 - 565	BABT 8532-196
Monocrystalline	UL-xxxM-108CBDGN	475 - 510	BABT 8532-197
Monocrystalline	UL-xxxM-96CBDGN	420 - 450	BABT 8532-198
Monocrystalline	UL-xxxM-132DDGN	575 - 620	BABT 8532-199
Monocrystalline	UL-xxxM-120DDGN	525 - 560	BABT 8532-200
Monocrystalline	UL-xxxM-108DDGN	470 - 505	BABT 8532-201
Monocrystalline	UL-xxxM-96DDGN	420 - 450	BABT 8532-202
Monocrystalline	UL-xxxM-132DBDGN	635 - 680	BABT 8532-203
Monocrystalline	UL-xxxM-120DBDGN	580 - 615	BABT 8532-204

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Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	UL-xxxM-108DBDGN	520 - 555	BABT 8532-205
Monocrystalline	UL-xxxM-96DBDGN	465 - 495	BABT 8532-206
Monocrystalline	UL-xxxM-132DGN	670 - 700	BABT 8532-207
Monocrystalline	UL-xxxM-120DGN	610 - 635	BABT 8532-208
Monocrystalline	UL-xxxM-108DGN	550 - 570	BABT 8532-209
Monocrystalline	UL-xxxM-96DGN	490 - 510	BABT 8532-210
Monocrystalline	UL-xxxM-132BDGN	740 - 770	BABT 8532-211
Monocrystalline	UL-xxxM-120BDGN	675 - 700	BABT 8532-212
Monocrystalline	UL-xxxM-108BDGN	605 - 625	BABT 8532-213
Monocrystalline	UL-xxxM-96BDGN	540 - 560	BABT 8532-214

Note 1: where xxx = rated output power in W @ STC  
 Note 2: in steps of 5 W

## 5 Additional Information


All products within the scope of this certification shall be listed on the MCS Installations Database for the duration of this certificates validity. The database shall contain an entry for each individual power rating for the certified product, where the power rating shall be suffixed to the certificate number as listed on this certificate.

## 6 Conditions of Validity

This certificate authorizes the manufacturer or their authorized representative to apply the MCS Approved Product Mark to the range of products listed within this certification in accordance with the MCS Manufacturers / Distributors agreement dated **5th February 2020**.

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment or the approved quality system, which have not been notified to, and agreed with TUV SUD BABT UNLIMITED or a person appointed by TUV SUD BABT UNLIMITED to perform that role.

The manufacturer must immediately cease affixing the MCS Approved Product Mark on any product subject to expiry, withdrawal or suspension of this certification.

Signature: _____ 	Date: _____ 2024-04-15
Print Name: Stephen Milliken	
On behalf of TUV SUD BABT UNLIMITED	