



Certificate of Factory Production Control

This certificate has been issued to

Hengdian Group DMEGC Magnetics Co., Ltd.

of

Hengdian Industrial Area
 Dongyang City
 Zhejiang Province
 322118
 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 8586 R16

Valid from: 05 December 2023

This Certificate expires on: 10 October 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 and Certification 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

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

1 Manufacturing Location

Facility 1	Facility 2
Hengdian Industrial Area Dongyang City Zhejiang Province 322118 People's Republic of China	Jiangsu Dongci New Energy Technology Co., Ltd. Sihong County Economic Development Zone Sihong County Suqian City Jiangsu Province People's Republic of 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 8586 R16	1	30-11-2023

3 Technical Documentation

3.1 User Guide

Installation Manual of Standard Solar Modules Ver: 202301-2 Modified 16/10/2023

3.2 Test Reports

704061707705-01	Issued	16/04/2018
704061707705-02	Issued	08/05/2018
704061707705-03	Issued	20/08/2018
704061707705-04	Issued	20/02/2019
704061707705-05	Issued	13/05/2019
704061707705-06	Issued	20/08/2019
704061707705-07	Issued	19/11/2019
704061707705-08	Issued	18/03/2020
704061707705-09	Issued	04/07/2020
704061707705-10	Issued	05/07/2020
704061707705-12	Issued	12/03/2021
704061707705-13	Issued	24/03/2021
704061707705-14	Issued	27/04/2021
704061707705-15	Issued	15/06/2021
704061707705-16	Issued	25/10/2021

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704061707705-17	Issued	07/01/2022
704061707705-18	Issued	24/02/2022
704061707705-18A1	Issued	06/04/2022
704061707705-19	Issued	22/04/2022
704061707705-20	Issued	12/07/2022
704061707705-20A3	Issued	19/10/2022
704061905401-01	Issued	12/05/2019
704061905401-02	Issued	09/08/2019
704061905401-03	Issued	19/11/2019
704061905401-04	Issued	27/03/2020
704061905401-05	Issued	17/04/2020
704061905401-06	Issued	09/07/2020
704061905401-07	Issued	20/10/2020
704061905401-08	Issued	02/07/2021
704061905401-09	Issued	16/07/2021
704061905401-10	Issued	29/11/2021
704061905401-11	Issued	07/01/2022
704061905401-12	Issued	24/02/2022
704061905401-13	Issued	22/04/2022
704061905401-14	Issued	01/06/2022
704061905401-15	Issued	12/07/2022
704061905401-16	Issued	05/08/2022
704062202041-00	Issued	29/04/2023
704062202041-01	Issued	23/09/2023

4 Products Within Scope of Certification

4.1 MCS 005: Solar Photovoltaic Modules

Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	DMxxxM2-60SW	280 - 310	BABT 8586-101
Monocrystalline	DMxxxM2-60BW	280 - 310	BABT 8586-102
Monocrystalline	DMxxxM2-60HSW	280 - 320	BABT 8586-103
Monocrystalline	DMxxxM2-60HBW	280 - 320	BABT 8586-104
Monocrystalline	DMxxxM2-60BB	280 - 310	BABT 8586-105
Monocrystalline	DMxxxM2-60BU	280 - 310	BABT 8586-106
Monocrystalline	DMxxxM2-60HBB	280 - 320	BABT 8586-107
Monocrystalline	DMxxxM2-72SW	335 - 375	BABT 8586-108
Monocrystalline	DMxxxM2-72BW	335 - 375	BABT 8586-109
Monocrystalline	DMxxxM2-72HSW	340 - 385	BABT 8586-110
Monocrystalline	DMxxxM2-72HBW	340 - 385	BABT 8586-111
Monocrystalline	DMxxxM2-72BB	335 - 375	BABT 8586-112
Monocrystalline	DMxxxM2-72BU	335 - 375	BABT 8586-113
Monocrystalline	DMxxxM2-72HBB	340 - 385	BABT 8586-114
Monocrystalline	DMxxxG1-60SW	315 - 330	BABT 8586-115
Monocrystalline	DMxxxG1-60BW	315 - 330	BABT 8586-116
Monocrystalline	DMxxxG1-60HSW	320 - 350	BABT 8586-117
Monocrystalline	DMxxxG1-60HBW	320 - 350	BABT 8586-118

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	DMxxxG1-60BB	315 - 330	BABT 8586-119
Monocrystalline	DMxxxG1-60BU	300 - 330	BABT 8586-120
Monocrystalline	DMxxxG1-60HBB	320 - 350	BABT 8586-121
Monocrystalline	DMxxxG1-72SW	385 - 395	BABT 8586-122
Monocrystalline	DMxxxG1-72BW	385 - 395	BABT 8586-123
Monocrystalline	DMxxxG1-72HSW	380 - 405	BABT 8586-124
Monocrystalline	DMxxxG1-72HBW	380 - 405	BABT 8586-125
Monocrystalline	DMxxxG1-72BB	385 - 395	BABT 8586-126
Monocrystalline	DMxxxG1-72BU	385 - 395	BABT 8586-127
Monocrystalline	DMxxxG1-72HBB	380 - 405	BABT 8586-128
Monocrystalline	DMxxxM6-60HSW	345 - 380	BABT 8586-129
Monocrystalline	DMxxxM6-60HBB	345 - 380	BABT 8586-130
Monocrystalline	DMxxxM6-60HBW	345 - 380	BABT 8586-131
Monocrystalline	DMxxxM6-72HSW	415 - 450	BABT 8586-132
Monocrystalline	DMxxxM6-72HBB	415 - 450	BABT 8586-133
Monocrystalline	DMxxxM6-72HBW	415 - 450	BABT 8586-134
Monocrystalline	DMxxxM10-72HSW	535 - 555	BABT 8586-135
Monocrystalline	DMxxxM10-72HBB	535 - 555	BABT 8586-136
Monocrystalline	DMxxxM10-72HBW	535 - 555	BABT 8586-137
Monocrystalline	DMxxxM10-60HSW	445 - 460	BABT 8586-138
Monocrystalline	DMxxxM10-60HBB	445 - 460	BABT 8586-139
Monocrystalline	DMxxxM10-60HBW	445 - 460	BABT 8586-140
Monocrystalline	DMxxxM10-54HSW	405 - 415	BABT 8586-141
Monocrystalline	DMxxxM10-54HBW	405 - 415	BABT 8586-142
Monocrystalline	DMxxxM6-72HSW-V	415 - 465	BABT 8586-143
Monocrystalline	GHxxxM6-72HSW-V	415 - 465	BABT 8586-144
Monocrystalline	DMxxxM6-60HSW-V	345 - 380	BABT 8586-145
Monocrystalline	GHxxxM6-60HSW-V	345 - 380	BABT 8586-146
Monocrystalline	DMxxxM6-72HBW-V	415 - 465	BABT 8586-147
Monocrystalline	DMxxxM6-72HBB-V	415 - 465	BABT 8586-148
Monocrystalline	GHxxxM6-72HBW-V	415 - 465	BABT 8586-149
Monocrystalline	DMxxxM6-60HBW-V	345 - 380	BABT 8586-150
Monocrystalline	DMxxxM6-60HBB-V	345 - 380	BABT 8586-151
Monocrystalline	GHxxxM6-60HBW-V	345 - 380	BABT 8586-152
Monocrystalline	DMxxxG1-60SW-V	315 - 330	BABT 8586-153
Monocrystalline	DMxxxG1-60BW-V	315 - 330	BABT 8586-154
Monocrystalline	DMxxxG1-60HSW-V	320 - 350	BABT 8586-155

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Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	DMxxxG1-60HBW-V	320 - 350	BABT 8586-156
Monocrystalline	DMxxxG1-60HBB-V	320 - 350	BABT 8586-157
Monocrystalline	DMxxxG1-72SW-V	385 - 395	BABT 8586-158
Monocrystalline	DMxxxG1-72BW-V	385 - 395	BABT 8586-159
Monocrystalline	DMxxxG1-72HSW-V	380 - 420	BABT 8586-160
Monocrystalline	DMxxxG1-72HBW-V	380 - 420	BABT 8586-161
Monocrystalline	DMxxxG1-72HBB-V	380 - 420	BABT 8586-162
Monocrystalline	DMxxxM10-72HSW-V	535 - 555	BABT 8586-163
Monocrystalline	GHxxxM10-72HSW-V	535 - 555	BABT 8586-164
Monocrystalline	DMxxxM10-72HBW-V	535 - 555	BABT 8586-165
Monocrystalline	DMxxxM10-72HBB-V	535 - 555	BABT 8586-166
Monocrystalline	GHxxxM10-72HBW-V	535 - 555	BABT 8586-167
Monocrystalline	DMxxxM10-60HSW-V	445 - 460	BABT 8586-168
Monocrystalline	GHxxxM10-60HSW-V	445 - 460	BABT 8586-169
Monocrystalline	DMxxxM10-60HBW-V	445 - 460	BABT 8586-170
Monocrystalline	DMxxxM10-60HBB-V	445 - 460	BABT 8586-171
Monocrystalline	GHxxxM10-60HBW-V	445 - 460	BABT 8586-172
Monocrystalline	DMxxxM10-54HSW-V	380 - 415	BABT 8586-173
Monocrystalline	DMxxxM10-54HBW-V	380 - 415	BABT 8586-174
Monocrystalline	DMxxxM10-54HBB-V	380 - 415	BABT 8586-175
Monocrystalline	GHxxxM10-54HBW-V	380 - 415	BABT 8586-176
Monocrystalline	GHxxxM10-54HSW-V	380 - 415	BABT 8586-177
Monocrystalline	DMxxxM10-66HSW-V	480 - 505	BABT 8586-178
Monocrystalline	DMxxxM10-66HBW-V	480 - 505	BABT 8586-179
Monocrystalline	DMxxxM10-66HBB-V	480 - 505	BABT 8586-180
Monocrystalline	DMxxxG12-66HSW-V	650 - 660	BABT 8586-181
Monocrystalline	DMxxxG12-66HBW-V	650 - 660	BABT 8586-182
Monocrystalline	DMxxxG12-66HBB-V	650 - 660	BABT 8586-183
Monocrystalline	DMxxxG12-60HSW-V	590 - 600	BABT 8586-184
Monocrystalline	DMxxxG12-60HBW-V	590 - 600	BABT 8586-185
Monocrystalline	DMxxxG12-60HBB-V	590 - 600	BABT 8586-186
Monocrystalline	DMxxxM6S-72HSW-V	415 - 465	BABT 8586-187
Monocrystalline	DMxxxM6S-72HBW-V	415 - 465	BABT 8586-188
Monocrystalline	DMxxxM6S-72HBB-V	415 - 465	BABT 8586-189
Monocrystalline	DMxxxM6S-60HSW-V	345 - 380	BABT 8586-190
Monocrystalline	DMxxxM6S-60HBW-V	345 - 380	BABT 8586-191
Monocrystalline	DMxxxM6S-60HBB-V	345 - 380	BABT 8586-192

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Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	DMxxxM6-54HSW-V	315 - 340	BABT 8586-193
Monocrystalline	DMxxxM6-54HBW-V	315 - 340	BABT 8586-194
Monocrystalline	DMxxxM6-54HBB-V	315 - 340	BABT 8586-195
Monocrystalline	DMxxxM10S-72HSW-V	535 - 555	BABT 8586-196
Monocrystalline	DMxxxM10S-72HBB-V	535 - 555	BABT 8586-197
Monocrystalline	DMxxxM10S-60HBW-V	445 - 460	BABT 8586-198
Monocrystalline	DMxxxM10S-54HBB-V	380 - 415	BABT 8586-199
Monocrystalline	DMxxxM10S-66HBW-V	480 - 505	BABT 8586-200
Monocrystalline	DMxxxM10-78HSW-V	570 - 600	BABT 8586-201
Monocrystalline	DMxxxM10-78HBB-V	570 - 600	BABT 8586-202
Monocrystalline	DMxxxM10-78HBW-C-V	535 - 555	BABT 8586-203
Monocrystalline	DMxxxM10-60HSW-C-V	445 - 460	BABT 8586-204
Monocrystalline	DMxxxM10-60HBB-C-V	445 - 460	BABT 8586-205
Monocrystalline	DMxxxM10S-72HBW	535 - 555	BABT 8586-206
Monocrystalline	DMxxxM10S-66HSW	480 - 505	BABT 8586-207
Monocrystalline	DMxxxM10S-66HBB	480 - 505	BABT 8586-208
Monocrystalline	DMxxxM10-32HSW	240 - 245	BABT 8586-209
Monocrystalline	DMxxxM10-16HBW	115 – 120 (in steps of 1)	BABT 8586-210
Monocrystalline	DMxxxM10-16HSW	115 – 120 (in steps of 1)	BABT 8586-211
Monocrystalline	DMxxxM10-78HBW	570 - 600	BABT 8586-212
Monocrystalline	DMxxxM10-72HSW-C	535 - 555	BABT 8586-213
Monocrystalline	DMxxxM10-72HBB-C	535 - 555	BABT 8586-214
Monocrystalline	DMxxxM10-60HBW-C	445 - 460	BABT 8586-215
Monocrystalline	DMxxxM10-54HSW	380 - 415	BABT 8586-216
Monocrystalline	DMxxxM10-54HBB	380 - 415	BABT 8586-217
Monocrystalline	DMxxxM10S-60HBW	445 - 460	BABT 8586-218
Monocrystalline	DMxxxM10S-54HSW	380 - 415	BABT 8586-219
Monocrystalline	DMxxxM10S-54HBB	380 - 415	BABT 8586-220
Monocrystalline	DMxxxM10-66HBW	480 - 505	BABT 8586-221
Monocrystalline	DMxxxM10S-72HBW-V	535 - 555	BABT 8586-222
Monocrystalline	DMxxxM10S-60HSW-V	445 - 460	BABT 8586-223
Monocrystalline	DMxxxM10S-54HBW-V	380 - 415	BABT 8586-224
Monocrystalline	DMxxxM10S-66HSW-V	480 - 505	BABT 8586-225
Monocrystalline	DMxxxM10S-66HBB-V	480 - 505	BABT 8586-226
Monocrystalline	DMxxxM10-78HBW-V	570 - 600	BABT 8586-227
Monocrystalline	DMxxxM10-78HSW-C-V	535 - 555	BABT 8586-228
Monocrystalline	DMxxxM10-78HBB-C-V	535 - 555	BABT 8586-229

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	DMxxxM10-60HBW-C-V	445 - 460	BABT 8586-230
Monocrystalline	DMxxxM10S-72HSW	535 - 555	BABT 8586-231
Monocrystalline	DMxxxM10S-72HBB	535 - 555	BABT 8586-232
Monocrystalline	DMxxxM10S-66HBW	480 - 505	BABT 8586-233
Monocrystalline	DMxxxM10-32HBW	240 - 245	BABT 8586-234
Monocrystalline	DMxxxM10-32HBB	240 - 245	BABT 8586-235
Monocrystalline	DMxxxM10-16HBB	115 – 120 (in steps of 1)	BABT 8586-236
Monocrystalline	DMxxxM10-78HSW	570 - 600	BABT 8586-237
Monocrystalline	DMxxxM10-78HBB	570 - 600	BABT 8586-238
Monocrystalline	DMxxxM10-72HBW-C	535 - 555	BABT 8586-239
Monocrystalline	DMxxxM10-60HSW-C	445 - 460	BABT 8586-240
Monocrystalline	DMxxxM10-60HBB-C	445 - 460	BABT 8586-241
Monocrystalline	DMxxxM10-54HBW	380 - 415	BABT 8586-242
Monocrystalline	DMxxxM10S-60HSW	445 - 460	BABT 8586-243
Monocrystalline	DMxxxM10S-60HBB	445 - 460	BABT 8586-244
Monocrystalline	DMxxxM10S-54HBW	380 - 415	BABT 8586-245
Monocrystalline	DMxxxM10-66HSW	480 - 505	BABT 8586-246
Monocrystalline	DMxxxM10-66HBB	480 - 505	BABT 8586-247
Monocrystalline	DMxxxM10T-72HBB	550 - 580	BABT 8586-248
Monocrystalline	DMxxxM10T-72HSW	550 - 580	BABT 8586-249
Monocrystalline	DMxxxM10T-72HBW	550 - 580	BABT 8586-250
Monocrystalline	DMxxxM10T-66HBB	505 - 530	BABT 8586-251
Monocrystalline	DMxxxM10T-66HSW	505 - 530	BABT 8586-252
Monocrystalline	DMxxxM10T-66HBW	505 - 530	BABT 8586-253
Monocrystalline	DMxxxM10T-60HBB	455 - 480	BABT 8586-254
Monocrystalline	DMxxxM10T-60HSW	455 - 480	BABT 8586-255
Monocrystalline	DMxxxM10T-60HBW	455 - 480	BABT 8586-256
Monocrystalline	DMxxxM10T-54HBB	410 - 435	BABT 8586-257
Monocrystalline	DMxxxM10T-54HSW	410 - 435	BABT 8586-258
Monocrystalline	DMxxxM10T-54HBW	410 - 435	BABT 8586-259
Monocrystalline	DMxxxM10T-72HBB-V	550 - 580	BABT 8586-260
Monocrystalline	DMxxxM10T-72HSW-V	550 - 580	BABT 8586-261
Monocrystalline	DMxxxM10T-72HBW-V	550 - 580	BABT 8586-262
Monocrystalline	DMxxxM10T-66HBB-V	505 - 530	BABT 8586-263
Monocrystalline	DMxxxM10T-66HSW-V	505 - 530	BABT 8586-264
Monocrystalline	DMxxxM10T-66HBW-V	505 - 530	BABT 8586-265
Monocrystalline	DMxxxM10T-60HBB-V	455 - 480	BABT 8586-266

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	DMxxxM10T-60HSW-V	455 - 480	BABT 8586-267
Monocrystalline	DMxxxM10T-60HBW-V	455 - 480	BABT 8586-268
Monocrystalline	DMxxxM10T-54HBB-V	410 - 435	BABT 8586-269
Monocrystalline	DMxxxM10T-54HSW-V	410 - 435	BABT 8586-270
Monocrystalline	DMxxxM10T-54HBW-V	410 - 435	BABT 8586-271
Monocrystalline	DMxxxM10RT-54HBB	425 - 450	BABT 8586-272
Monocrystalline	DMxxxM10RT-54HSW	425 - 450	BABT 8586-273
Monocrystalline	DMxxxM10RT-54HBW	425 - 450	BABT 8586-274
Monocrystalline	GHxxxM10RT-54HBB	425 - 450	BABT 8586-275
Monocrystalline	GHxxxM10RT-54HSW	425 - 450	BABT 8586-276
Monocrystalline	GHxxxM10RT-54HBW	425 - 450	BABT 8586-277
Monocrystalline	DMxxxM10RT-54HBB-V	425 - 450	BABT 8586-278
Monocrystalline	DMxxxM10RT-54HSW-V	425 - 450	BABT 8586-279
Monocrystalline	DMxxxM10RT-54HBW-V	425 - 450	BABT 8586-280
Monocrystalline	GHxxxM10RT-54HBB-V	425 - 450	BABT 8586-281
Monocrystalline	GHxxxM10RT-54HSW-V	425 - 450	BABT 8586-282
Monocrystalline	GHxxxM10RT-54HBW-V	425 - 450	BABT 8586-283

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

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 **02-06-2020**.

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: 2023-12-05
Print Name: Stephen Milliken	
On behalf of TUV SUD BABT UNLIMITED	