ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Certificate of Factory Production Control

This certificate has been issued to

Dongying Dahai Kelin Solar Power Co., Ltd.

of

Yankou Village
Daozhuang Town
Guangrao County
Dongying City
Shandong Province
257336
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: BABT 8880 R0

Valid from: 24 January 2024 This Certificate expires on: 24 January 2027

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

1 Manufacturing Location

Facility 1	Facility 2
Dongying Dahai Kelin Solar Power Co., Ltd. Yankou Village Daozhuang Town Guangrao County Dongying City Shandong Province 257336 P.R.China	Laiwu Cleo Solar Power Co., Ltd. Room 101, No.7 Zhenxing Road Economic Development Zone Laiwu City Shandong Province 257300 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	☒
MCS 010 – Factory Production Control Requirements	Issue 2.0	☒
MCS 012 – Pitched Roof Installation Kits	Issue N/A	☐
MCS 017 – Bespoke Building Integrated Photovoltaic Products	Issue N/A	☐

2.2 Assessment Report

Assessment Report Number	Issue Number	Issue Date
BABT 8880 R0	1	12-01-2024

3 Technical Documentation

3.1 User Guide

Installation Manual	Modified	27/06/2013

3.2 Test Reports

88.216.18.190.01	Issued	15/03/2019
88.216.18.190.02	Issued	15/07/2021
88.216.18.190.03	Issued	02/08/2022
88.216.18.190.04	Issued	31/10/2022
88.216.18.190.05	Issued	03/01/2023
88.216.18.190.06	Issued	08/03/2023
88.216.18.190.07	Issued	18/05/2023
88.216.18.190.08	Issued	08/12/2023

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	DHM60-XXX	275 - 315	BABT8880-101
Monocrystalline	DHM72-XXX	335 - 380	BABT8880-102
Monocrystalline	DHM60H-XXX	285 - 325	BABT8880-103
Monocrystalline	DHM72H-XXX	345 - 395	BABT8880-104
Monocrystalline	DHM72T20-XXX/MR	435 - 455	BABT8880-105
Monocrystalline	DHM72T30-XXX/MR	535 - 550	BABT8880-106
Monocrystalline	DHM60T20-XXX/MR	365 - 380	BABT8880-107
Monocrystalline	DHM60T30-XXX/MR	445 - 460	BABT8880-108
Monocrystalline	DHM54T30-XXX/MR	390 - 415	BABT8880-109
Monocrystalline	DHM72T25-XXX/MR	435 - 455	BABT8880-110
Monocrystalline	DHM60T25-XXX/MR	365 - 380	BABT8880-111
Monocrystalline	DHM72D20-XXXMR	445 - 460	BABT8880-112
Monocrystalline	DHM72D30-XXX/MR	535 - 555	BABT8880-113
Monocrystalline	DHM60D20-XXX/MR	370 - 385	BABT8880-114
Monocrystalline	DHM60D30-XXX/MR	445 - 465	BABT8880-115
Monocrystalline	DHM50D50-XXX/MR	490 - 515	BABT8880-116
Monocrystalline	DHM55D50-XXX/MR	530 - 555	BABT8880-117
Monocrystalline	DHM60D50-XXX/MR	590 - 615	BABT8880-118
Monocrystalline	DHM66D50-XXX/MR	645 - 680	BABT8880-119
Monocrystalline	DHM54T31-XXX/MR	390 - 415	BABT8880-120
Monocrystalline	DHM60T31-XXX/MR	445 - 460	BABT8880-121
Monocrystalline	DHM72T31-XXX/MR	535 - 555	BABT8880-122
Monocrystalline	DHM50T50-XXX/MR	485 - 510	BABT8880-123
Monocrystalline	DHM55T50-XXX/MR	530 - 555	BABT8880-124
Monocrystalline	DHM60T50-XXX/MR	585 - 610	BABT8880-125
Monocrystalline	DHM66T50-XXX/MR	645 - 670	BABT8880-126
Monocrystalline	DHM54T35-XXX/MR	390 - 415	BABT8880-127
Monocrystalline	DHM60T35-XXX/MR	445 - 460	BABT8880-128
Monocrystalline	DHM72T35-XXX/MR	535 - 550	BABT8880-129
Monocrystalline	DHM54T31-XXX/TP	410 - 435	BABT8880-130
Monocrystalline	DHM60T31-XXX/TP	455 - 485	BABT8880-131
Monocrystalline	DHM72T31-XXX/TP	555 - 585	BABT8880-132
Monocrystalline	DHM54T35-XXX/TP	410 - 435	BABT8880-133
Monocrystalline	DHM60T35-XXX/TP	455 - 485	BABT8880-134

Annex to
Factory Production Control Requirement
Microgeneration Certification Scheme

Product Type	Product Name Note 1	Power Range (W) Note 2	Certification Number
Monocrystalline	DHM72T35-XXX/TP	555 - 585	BABT8880-135
Monocrystalline	DHM66T31-XXX/MR	490 - 510	BABT8880-136
Monocrystalline	DHM66T31-XXX/TP	510 - 535	BABT8880-137
Monocrystalline	DHM66T35-XXX/MR	490 - 510	BABT8880-138
Monocrystalline	DHM66T35-XXX/TP	510 - 535	BABT8880-139
Monocrystalline	DHM66T60-XXX/TP	585 - 610	BABT8880-140
Monocrystalline	DHM60T60-XXX/TP	535 - 555	BABT8880-141
Monocrystalline	DHM48T60-XXX/TP	420 - 445	BABT8880-142
Monocrystalline	DHM66T65-XXX/TP	585 - 610	BABT8880-143
Monocrystalline	DHM60T65-XXX/TP	535 - 555	BABT8880-144
Monocrystalline	DHM48T65-XXX/TP	420 - 445	BABT8880-145
Monocrystalline	DHM72D30-XXX/TP	560 - 585	BABT8880-146
Monocrystalline	DHM72D35-XXX/TP	560 - 585	BABT8880-147
Monocrystalline	DHM66D30-XXX/TP	510 - 535	BABT8880-148
Monocrystalline	DHM66D35-XXX/TP	510 - 535	BABT8880-149
Monocrystalline	DHM60D30-XXX/TP	460 - 490	BABT8880-150
Monocrystalline	DHM60D35-XXX/TP	460 - 490	BABT8880-151
Monocrystalline	DHM54D30-XXX/MR	405 - 430	BABT8880-152
Monocrystalline	DHM54D30-XXX/TP	415 - 440	BABT8880-153
Monocrystalline	DHM54D35-XXX/MR	400 - 425	BABT8880-154
Monocrystalline	DHM54D35-XXX/TP	410 - 435	BABT8880-155
Monocrystalline	DHM66D60-XXX/TP	585 - 610	BABT8880-156
Monocrystalline	DHM60D60-XXX/TP	535 - 555	BABT8880-157
Monocrystalline	DHM48D60-XXX/TP	420 - 445	BABT8880-158
Monocrystalline	DHM66D65-XXX/TP	585 - 610	BABT8880-159
Monocrystalline	DHM60D65-XXX/TP	535 - 555	BABT8880-160
Monocrystalline	DHM48D65-XXX/TP	420 - 445	BABT8880-161
Monocrystalline	DHM66D30-XXX/MR	490 - 510	BABT8880-162
Monocrystalline	DHM66D35-XXX/MR	490 - 510	BABT8880-163
Monocrystalline	DHM60D35-XXX/MR	445 - 465	BABT8880-164

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

5 Additional Information

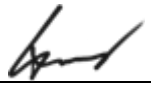
All products within the scope of this certification shall be listed on the MCS Installations Database for the duration of this certificates validity. The database shall contain an entry for each individual power rating for the certified product, where the power rating shall be suffixed to the certificate 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 **19th January 2024.**

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: 2024-01-24

Print Name: Stephen Milliken

On behalf of TUV SUD BABT UNLIMITED