TECHNICAL CLARIFICATION

Standard and Customized Solar PV Modules

The customized solar photovoltaic (PV) modules listed below are manufacturer-authorized variants of the corresponding standard solar PV module series of Qingdao Power World Co., Ltd., developed to meet specific customer and project requirements.

The customized models are based on the corresponding standard module series and are designed to maintain the following core technical characteristics:

Solar Cell Technology: Same photovoltaic cell technology and cell type.

Cell Configuration: Same cell quantity, arrangement, and electrical interconnection configuration.

Nominal Power Rating: Same nominal power rating as the corresponding standard model, where applicable.

Core Electrical Design: Same fundamental electrical design and operating principles.

Construction Customization: The customized models incorporate double-glass construction instead of the standard single-glass construction to meet specific project requirements.

STANDARD AND CUSTOMIZED MODEL REFERENCE

Standard Model / Range	Authorized Customized Model(s)
HSxxx-MHG (xxx=170-180, in steps of 5, 36 cells)	PWDG160Wp_36M, PWDG170Wp_36M, PWDG175Wp_36M
HSxxx-MHG (xxx=110-120, in steps of 5, 36 cells)	PWDG110Wp_36M, PWDG115Wp_36M, PWDG120Wp_36M
HSxxx-MHG (xxx=80-90, in steps of 5, 36 cells)	PWDG80Wp_36M, PWDG85Wp_36M, PWDG90Wp_36M
HSxxx-MHO (xxx=120-130, in steps of 5, 36 cells)	PWDG120Wp_36M, PWDG125Wp_36M, PWDG130Wp_36M
HSxxx-MHO (xxx=80-90, in steps of 5, 36 cells)	PWDG80Wp_36M, PWDG85Wp_36M, PWDG90Wp_36M
HSxxx-MHO (xxx=60-65, in steps of 5, 36 cells)	PWDG60Wp_36M, PWDG65Wp_36M
HSxxx-MHL (xxx=100-110, in steps of 5, 36 cells)	PWDG100Wp_36M, PWDG105Wp_36M, PWDG110Wp_36M
HSxxx-MHL (xxx=70-75, in steps of 5, 36 cells)	PWDG70Wp_36M, PWDG75Wp_36M
HSxxx-MHL (xxx=50-55, in steps of 5, 36 cells)	PWDG50Wp_36M, PWDG55Wp_36M
HSxxx-MHG (xxx=300-320, in steps of 5, 60 cells)	PWDG300Wp_60M, PWDG310Wp_60M, PWDG320Wp_60M

The separate customized model designations have been assigned for product identification, customization, and traceability purposes.

The listed customized models are manufacturer-authorized variants of their respective standard PV module series, sharing the applicable core photovoltaic technology, cell configuration, and fundamental electrical design, subject to the approved technical specifications of each model.

TEST REPORTS AND CERTIFICATION APPLICABILITY

The existing test reports for the corresponding standard models may be referenced for the technical characteristics they cover. The applicability of individual test results and certification coverage to the customized double-glass construction shall be determined in accordance with the relevant testing and certification requirements.

This technical clarification describes the relationship between the standard and customized PV module models for product identification, technical documentation, and tender evaluation purposes.