

# **Certificate of Compliance**

Certificate: 80146608 Master Contract: 303226

**Project:** 80146608 **Date Issued:** 2023-04-28

**Issued to:** Kivanc Enerji Uretim Anonim Sirketi.

Ulucamii Mahallesi Abidinpasa Caddesi No:54/18 - Seyhan/ADANA,

**TURKEY** 

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Qiang (Sean) Jiang

Qiang (Sean) Jiang

### **PRODUCTS**

CLASS 5311 10 - POWER SUPPLIES - Photovoltaic Modules and Panels CLASS 5311 90 - POWER SUPPLIES - Photovoltaic Modules and Panels - Certified to U.S. Standards

Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 V dc, model series: KVNC-xxxM-72H-GBF (xxx=520-560, in steps of 5), Fuse rating 25A.

Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 V dc, model series: KVNC-xxxM-66H-GBF (xxx=475-510, in steps of 5), Fuse rating 25A.

Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 V dc, model series: KVNC-xxxM-60H-GBF (xxx=435-465, in steps of 5), Fuse rating 25A.

Photovoltaic modules with Fire Performance (USA) Type 4, maximum system voltage of 1500 V dc, model series: KVNC-xxxM-54H-GBF (xxx=390-420, in steps of 5), Fuse rating 25A.

#### Notes:

- 1. The electrical characteristics are within  $\pm 5$ ,  $\pm 5$ ,  $\pm 3$  percent of the rated values of Isc ( $\pm 5\%$ ), Voc ( $\pm 5\%$ ), and Pmax( $\pm 3\%$ ) under standard test conditions (irradiance of 1000 W/m2, AM 1.5 spectrum, and a cell temperature of 25°C (77°F)).
- 2. The operating ambient temperature of these devices may exceed 40 °C at full load for all wire sizes if it is determined suitable in the field use application.



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	Open					
	Circuit	Short Circuit	Rated Voltage	Rated Current	Rated Maximum	
Model	Voltage at	Current at STC	at STC	at STC	Power at STC	
	STC	(A dc)	(V dc)	(A dc)	(Watts)	
	(V dc)					
KVNC-xxxM-72H-GBF (xxx=520-560, in steps of 5)						
KVNC-520M-72H-GBF	48.90	13.60	40.90	12.71	520	
KVNC-525M-72H-GBF	49.05	13.66	41.05	12.79	525	
KVNC-530M-72H-GBF	49.20	13.72	41.20	12.86	530	
KVNC-535M-72H-GBF	49.35	13.78	41.35	12.94	535	
KVNC-540M-72H-GBF	49.50	13.85	41.50	13.01	540	
KVNC-545M-72H-GBF	49.65	13.92	41.80	13.04	545	
KVNC-550M-72H-GBF	49.80	13.98	41.95	13.11	550	
KVNC-555M-72H-GBF	49.95	14.05	42.05	13.20	555	
KVNC-560M-72H-GBF	50.10	14.12	42.30	13.24	560	
KVNC-xxxM-66H-GBF (xxx=475-510, in steps of 5)						
KVNC-475M-66H-GBF	44.80	13.51	37.50	12.67	475	
KVNC-480M-66H-GBF	44.95	13.59	37.62	12.76	480	
KVNC-485M-66H-GBF	45.10	13.67	37.98	12.77	485	
KVNC-490M-66H-GBF	45.25	13.74	38.16	12.84	490	
KVNC-495M-66H-GBF	45.40	13.82	38.31	12.92	495	
KVNC-500M-66H-GBF	45.55	13.90	38.43	13.01	500	
KVNC-505M-66H-GBF	45.70	13.97	38.52	13.11	505	
KVNC-510M-66H-GBF	45.85	14.04	38.61	13.21	510	
KVNC-xxxM-60H-GBF (xxx=435-465, in steps of 5)						
KVNC-435M-60H-GBF	40.88	13.66	33.6	12.95	435	
KVNC-440M-60H-GBF	41.00	13.72	33.8	13.02	440	
KVNC-445M-60H-GBF	41.13	13.78	34.1	13.05	445	
KVNC-450M-60H-GBF	41.25	13.85	34.3	13.12	450	
KVNC-455M-60H-GBF	41.38	13.92	34.5	13.19	455	
KVNC-460M-60H-GBF	41.51	13.99	34.7	13.26	460	
KVNC-465M-60H-GBF	41.64	14.06	34.9	13.32	465	
	KVNC-xxx	M-54H-GBF (xxx=	390-420, in steps	of 5)		
KVNC-390M-54H-GBF	36.66	13.65	30.5	12.79	390	
KVNC-395M-54H-GBF	36.75	13.71	30.6	12.91	395	
KVNC-400M-54H-GBF	36.84	13.77	30.9	12.94	400	
KVNC-405M-54H-GBF	36.93	13.84	31.2	12.98	405	
KVNC-410M-54H-GBF	37.02	13.91	31.5	13.02	410	
KVNC-415M-54H-GBF	37.14	13.98	31.7	13.09	415	
KVNC-420M-54H-GBF	37.26	14.05	31.9	13.17	420	



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## **APPLICABLE REQUIREMENTS**

CSA C22.2 No. 61730-1:19 Photovoltaic (PV) module safety qualification — Part 1: Requirements for construction, 2019-12.

CSA C22.2 No. 61730-2:19 Photovoltaic (PV) module safety qualification — Part 2: Requirements for testing, 2019-12.

UL 61730-1 1st: Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, 2017-12-04, revision date 2020-04-30.

UL 61730-2 1st: Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements for Testing, 2017-12-04, revision date 2020-04-30.

#### Notes:

Products certified under Class C531110 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





# Supplement to Certificate of Compliance

Certificate: 80146608 Master Contract: 303226

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

## **Product Certification History**

Project	Date	Description
80146608	2023-04-28	Original certificate for KVNC-xxxM-72H-GBF, KVNC-xxxM-66H-GBF, KVNC-xxxM-60H-GBF, KVNC-xxxM-54H-GBF series PV module.