

### KEY FEATURES



#### 10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



#### Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days



#### ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation



#### Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology



#### Lower LCOE

Higher bifaciality, higher power output and lower BOS cost



#### Wider Applicability

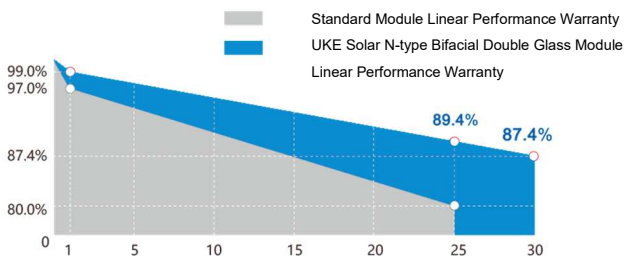
More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

### CERTIFICATE

- IEC61215, IEC61730, CQC, CE, TUV
- ISO9001:2015
- ISO14001:2015
- ISO45001:2018



### 30 Years Power Output Warranty



### WARRANTY



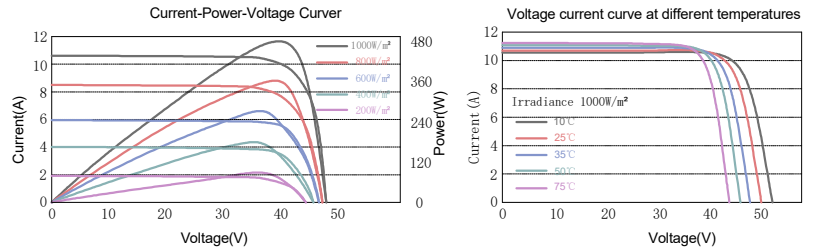
Linear power output warranty  
 -15 years minimum 87.4% power output  
 -30 years minimum 80.0% power output



Product warranty on materials and workmanship  
 According to the applicable UKE Solar  
 Limited Warranty Statement



## IV-CURVES



## ELECTRICAL CHARACTERISTICS (Front Side)

Model	UKE455M8-72BF	UKE460M8-72BF	UKE465M8-72BF	UKE470M8-72BF
Maximum Power at STC(Pmax)	455W	460W	465W	470W
Optimum Operating Voltage (Vmp)	41.8V	42.0V	42.2V	42.4V
Optimum Operating Current (Imp)	10.89A	10.96A	11.02A	11.09A
Open-Circuit Voltage (Voc)	50.2V	50.4V	50.6V	50.8V
Short-Circuit Current (Isc)	11.50A	11.56A	11.62A	11.69A
Solar Module Efficiency (%)	20.90	21.13	21.36	21.59
Operating Temperature	-40to85°C			
Maximum System Voltage	DC1500V			
Maximum Series Fuse Rating	25A			
Power Tolerance	0~+3%			
STC:Irradiance 1000W/m², Modules Temperature 25°C, AM=1.5				

## MECHANICAL CHARACTERISTICS

NOCT	42±2°C
Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of VOC	-0.260%/°C
Temperature Coefficient of ISC	+0.046%/°C

## TEMPERATURE COEFFICIENTS

No.of cells	Mono N-type 166mm 144(6×12+6×12)
Dimensions	2095mm*1039mm*30mm
Weight	28kg
Front glass	2mm/2mm tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68, three diodes
Connector	Plug and socket
Output cables	PV 4.0mm², 0.3m
Packing Specification	36 pcs/Pallet, 180 pcs/ 20'GP;792 pcs/ 40'HQ;

