

435 - 455W

GreatnessPV  
**BIFACIAL** **MX**

**NEW**

## FLAT SCREEN PANELS



Uzysk energii wyższy o 7% rocznie - brak zacienienia poprzez zatrzymanie brudu, czy śniegu na module.



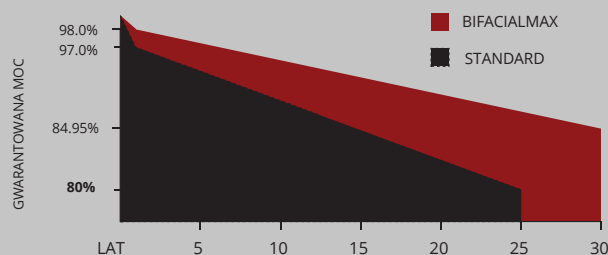
Długoterminowa niezawodność (2400 Pa) oraz brak obciążenia śniegiem (5400 Pa). Lepsza trwałość w trudnych warunkach.



Doskonała - bezpieczna i niższa temperatura pracy oraz moc wyjściowa.



Korzystny energetycznie design oraz niższy prąd roboczy.



PO 2 LATACH DO 30 SPADEK UZYSKU WYNIESIE 0.45%.



15  
LAT  
GWARANCJA  
PRODUKTOWA



30  
LAT  
GWARANCJA NA  
UZYSK

TECHNOLOGIA TOPCON | SPRAWNOŚĆ 21%



Munich RE



## Electrical Characteristics

Module Type	CP18-60HT435W		CP18-60HT440W		CP18-60HT445W		CP18-60HT450W		CP18-60HT455W	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	435	329	440	333	445	336	450	340	455	345
Maximum Power Voltage (Vmp)	34.64	32.25	34.79	32.46	34.91	32.56	35.05	32.76	35.15	32.95
Maximum Power Current (Imp)	12.55	10.20	12.65	10.26	12.75	10.32	12.85	10.38	12.95	10.47
Open-circuit Voltage (Voc)	41.20	38.34	41.40	38.45	41.50	38.57	41.60	38.68	41.70	38.81
Short-circuit Current (Isc)	13.45	10.90	13.57	10.97	13.68	11.03	13.78	11.10	13.88	11.15
Module Efficiency(%)	20.08%		20.31%		20.54%		20.77%		21.00%	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

\*Measuring tolerance: 0 ~ +5W

## Electrical Characteristics with 10% Solar Irradiation Ratio

Module Type	CP18-60HT435W	CP18-60HT440W	CP18-60HT445W	CP18-60HT450W	CP18-60HT455W
Maximum Power (Pmax)	473	479	484	490	495
Maximum Power Voltage (Vmp)	34.59	34.76	34.90	35.05	35.16
Maximum Power Current (Imp)	13.68	13.77	13.87	13.98	14.08
Open-circuit Voltage (Voc)	41.20	41.40	41.50	41.60	41.70
Short-circuit Current (Isc)	14.63	14.76	14.85	14.97	15.09

## Mechanical Parameters

Solar Cells	Monocrystalline (182mm)
Module Dimensions	1910*1134*30mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm <sup>2</sup> , 300/300mm

No. of Cells	120 [ 2 x ( 10 x 6 ) ]
Weight	26.5kg
Encapsulant Material	EVA/POE
J-Box	IP68
Connector	MC4 Compatible

## Temperature Ratings

NMOT (Nominal operating cell temperature)	45°C(±2°C)
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	+0.045%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

## Packaging

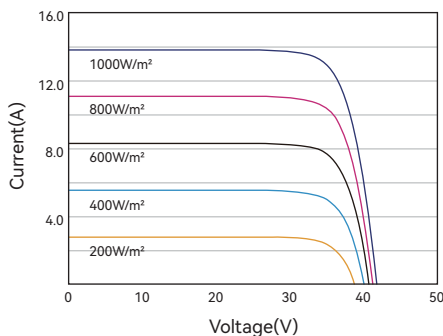
Pcs per Pallet: 36

## Operating Parameters

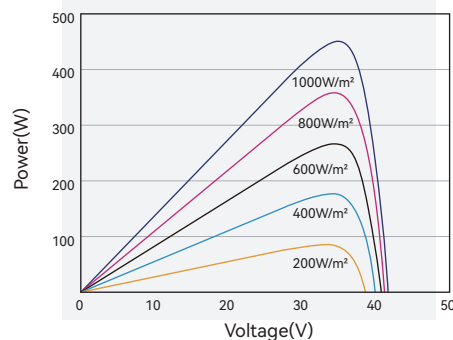
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifacality	80%

Pcs per 40' HC: 864

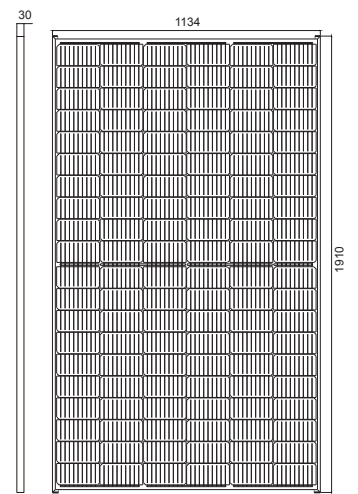
## I-V Curves of PV Module (450W)



## P-V Curves of PV Module (450W)



## Dimensions (Unit: mm)



Front View

