



ICON R-Series

ICON-60M10RCG

DOUBLE-GLASS BIFACIAL N-TYPE MODULE

490~500 W



Cutting Free Technology
Minimized micro-crack



Dual-Sided Power Generation
Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.



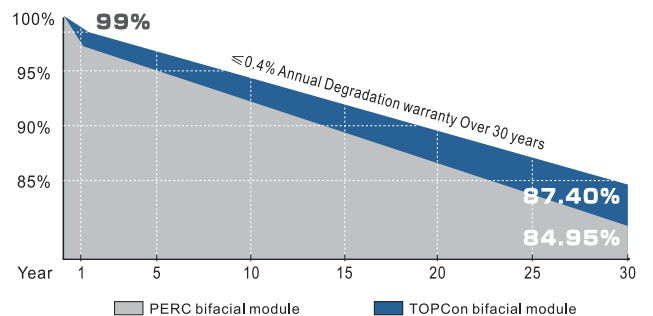
Anti-PID (potential induced degradation)
Passed anti-PID test under 85% damp heat 85% relative humidity for 192 hours



Higher Power Output
Lower shading and resistive loss



Outstanding mechanical load resistance
2400 Pa wind load, 5400 Pa snow load



Certification

- IEC 61215-1: 2021
- IEC 61215-1-1: 2021
- IEC 61215-2: 2021
- IEC 61730-1: 2023
- IEC 61730-2: 2023

ELECTRICAL SPECIFICATIONS

Module Type	ICON-60M10RCG-490		ICON-60M10RCG-495		ICON-60M10RCG-500		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power (Pmax)	W	490	371	495	375	500	379
Maximum Power Voltage (Vmp)	V	36.68	33.75	36.85	33.90	37.02	34.06
Maximum Power Current (Imp)	A	13.36	11.00	13.43	11.06	13.51	11.13
Open-circuit Voltage (Voc)	V	43.35	39.45	43.52	39.60	43.78	39.84
Short-circuit Current (Isc)	A	14.35	11.58	14.43	11.64	14.48	11.68
Module Efficiency STC	%	22.14		22.36		22.59	
Operating Temperature	-40°C~85°C						
Maximum system voltage	DC1500V(IEC)						
Maximum series fuse rating	30A						
Power tolerance	0~+5Watt						
Temperature coefficients of Pmax	-0.29%/°C						
Temperature coefficients of Voc	-0.25%/°C						
Temperature coefficients of Isc	0.046%/°C						
Nominal operating cell temperature (NOCT)	43±2°C						

*STC : Cell temperature: 25°C, Irradiance: 1000 W/m², Air mass: 1.5G

*NOCT : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s

SPECIFICATIONS

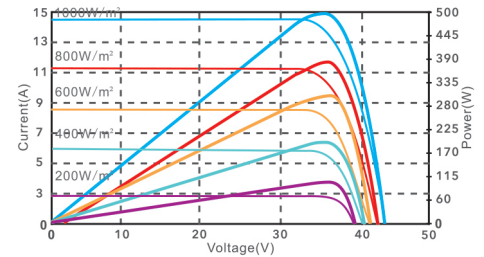
Cell Type	N type Mono-crystalline	
No. of cells	120(6×10×2)	
Dimensions	1960*1134*30mm	
Weight	26.5kg	
Glass	2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible	
Cable Length (Including Connector)	4m ² 1400mm	
Packaging Configuration	Two Box=One Pallet 36pcs/Box, 72pcs/Pallet, 864pcs/40HQ Container	

Electrical characteristics with different rear side power gain(reference to 500 W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
500	43.78	14.48	37.02	13.51	0
525	43.78	15.20	37.02	14.18	5%
550	43.78	15.93	37.02	14.86	10%
575	43.78	16.65	37.02	15.53	15%
600	43.78	17.38	37.02	16.21	20%
625	43.78	18.10	37.02	16.88	25%
650	43.78	18.82	37.02	17.56	30%

I-V CURVE[500W]

I-V characteristics at different irradiances



I-V characteristics at different temperature

