



ICON-G12 Series

ICON-66G12G

DOUBLE-GLASS BIFACIAL N-TYPE MODULE
700~715 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.



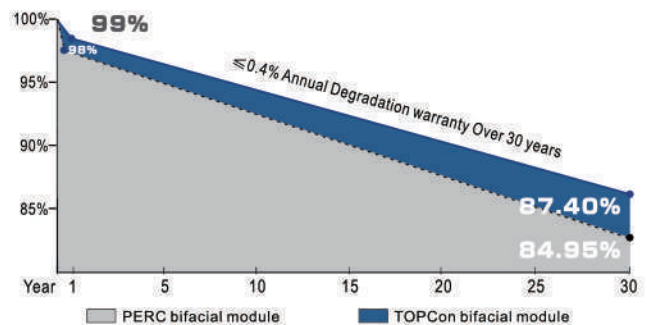
Anti-PID (potential induced degradation)
Passed anti-PID test under 85°C damp heat 85% relative humidity for 192 hours



Lower LCOE
Lower shading and resistive loss
Lower temperature coefficient



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

TOPCon (N TYPE) 700~715Watt



ELECTRICAL SPECIFICATIONS

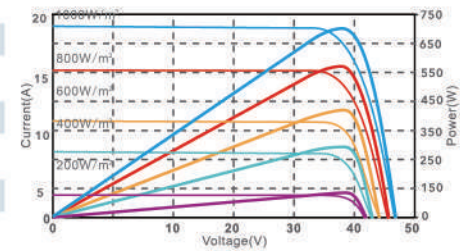
Module Type	ICON-66G12G-700		ICON-66G12G-705		ICON-66G12G-710		ICON-66G12G-715		
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	STC*	NOCT*	
Maximum Power (Pmax)	W	700	530	705	534	710	538	715	542
Maximum Power Voltage (Vmp)	V	40.54	37.29	40.69	37.43	40.84	37.57	40.99	37.71
Maximum Power Current (Imp)	A	17.27	14.22	17.33	14.27	17.38	14.32	17.44	14.37
Open-circuit Voltage (Voc)	V	48.62	44.24	48.72	44.34	48.82	44.43	48.93	44.53
Short-circuit Current (Isc)	A	18.32	14.78	18.36	14.81	18.40	14.84	18.42	14.86
Module Efficiency STC	%	22.53		22.70		22.86		23.02	
Operating Temperature	-40°C~85°C								
Maximum system voltage	DC1500V(IEC)								
Maximum series fuse rating	35A								
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

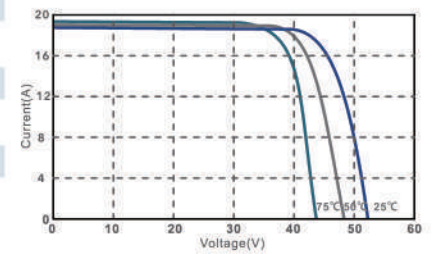
*NOCT: Air temperature: 20°C Irradiance: 800 W/m² Air mass: 1.5G Wind speed: 1 m/s

I-V CURVE [700W]

I-V characteristics at different irradiancies



I-V characteristics at different temperature



SPECIFICATIONS

Cell Type	N type Mono-crystalline
No. of cells	132(6×11×2)
Dimensions	2384*1303*33mm
Weight	37.4kg
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	33pcs/Pallet, 594pcs/40HQ Container

Electrical characteristics with different rear side power gain (reference to 700W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
700	48.62	18.32	40.54	17.27	0
735	48.62	19.24	40.54	18.13	5%
770	48.62	20.15	40.54	19.00	10%
805	48.62	21.07	40.54	19.86	15%
840	48.62	21.98	40.54	20.72	20%
875	48.62	22.90	40.54	21.59	25%
910	48.62	23.82	40.54	22.45	30%

