

## HC MONO

### 430 - 455 Watt



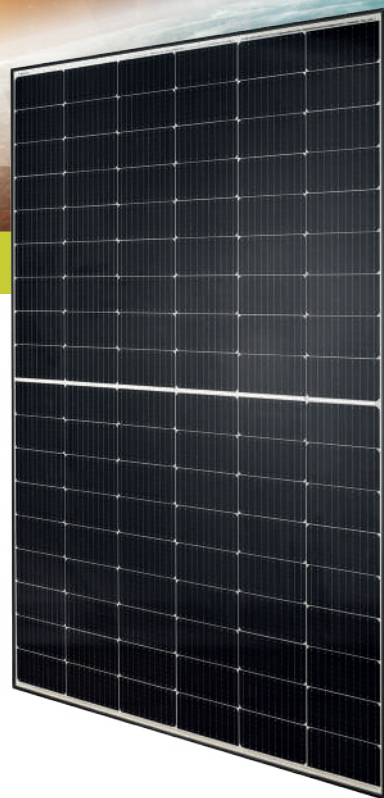
### KEY FEATURES

Our solar cells offer high conversion efficiency to ensure the highest quality

Our high performing modules have an industry low tolerance of 0 ~ +5W

The modules can withstand high wind-pressure, snow loads and extreme temperatures

Passed IEC 5400 Pa mechanical loading test  
PID Resistance Available

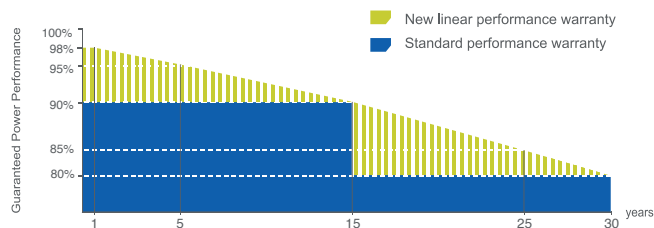


### QUALITY AND SAFETY

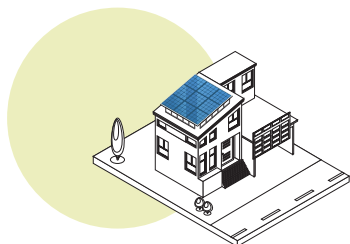
- Industry leading power output warranty  
15 years/90%  
30 years/80%
- 25-year warranty on materials & workmanship
- Fire Rating: Class 1



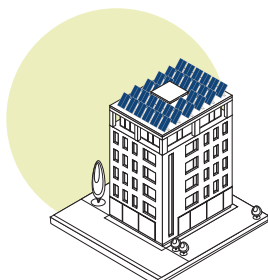
### PREMIUM PERFORMANCE WARRANTY



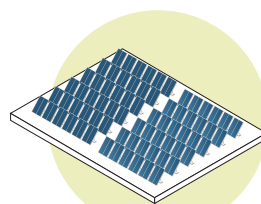
### APPLICATIONS



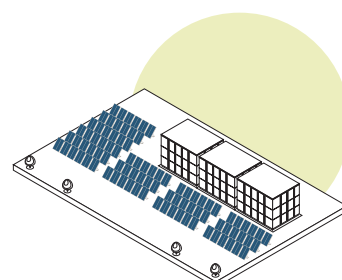
On-grid residential roof-tops



On-grid commercial - industrial roof-tops

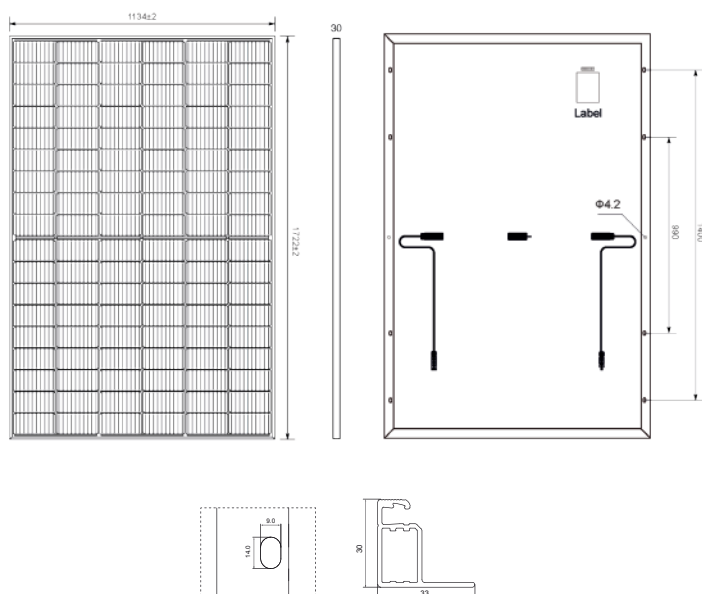


Solar power plants



Off-grid systems

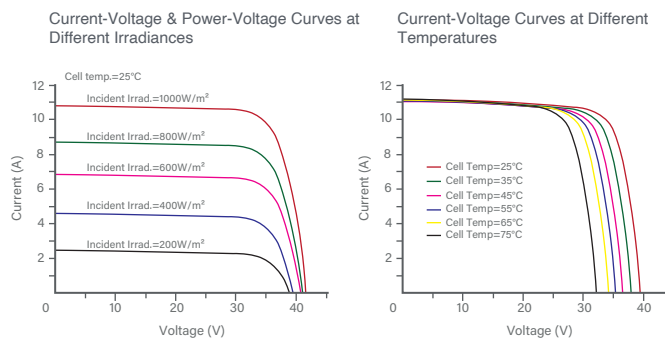
## ENGINEERING DRAWINGS



## PACKAGING CONFIGURATION

Standard packaging	72 pcs / pallet
Module quantity per 20' container	216 pcs
Module quantity per 40' container	936 pcs

## ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



## MECHANICAL CHARACTERISTICS

Cell Type	Orion N-Type Mono-crystalline (182X91mm)
No. of cells	108(6x18)
Dimensions	1722x1134x30mm
Weight	22kg
Front Glass	3.2mm, AR Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy (Silver/Black optional)
Junction Box	IP68 Rated
Output Cables	TÜV 1x4.0mm² / UL 12AWG, Length:1100mm

## SPECIFICATIONS

STC



Irradiance 1000W/m²



Module Temperature 25°C



AM=1.5

Module Type <sup>(1)</sup>	TKA430M-108		TKA435M-108		TKA440M-108		TKA445M-108		TKA450M-108		TKA455M-108	
	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>
Maximum Power at STC(Pmax)	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp	445Wp	335Wp	450Wp	339Wp	455Wp	343Wp
Maximum Power Voltage (Vmp)	32.72V	30.10V	32.96V	30.34V	33.20V	30.57V	33.44V	30.79V	33.66V	31.02V	33.90V	32.24V
Maximum Power Current (Imp)	13.15A	10.73A	13.21A	10.78A	13.27A	10.83A	13.33A	10.88A	13.39A	10.93A	13.45A	10.98A
Open-circuit Voltage (Voc)	38.62V	37.00V	38.86V	37.20V	39.00V	37.40V	39.14V	37.60V	39.28V	37.80V	39.42V	38.00V
Short-circuit Current (Isc)	13.90A	11.09A	13.96A	11.14A	14.02A	11.19A	14.08A	11.24A	14.14A	11.29A	14.20A	11.34A
Module Efficiency (%)	21.99%		22.27%		22.53%		22.78%		23.04%		23.29%	
Voc and isc tolerance	±3%											
Operating Temperature(°C)	-40°C~+85°C											
Maximum system voltage	1500V											
Maximum series fuse rating	25A											
Temperature coefficients of Pmax	-0.29%/°C											
Temperature coefficients of Voc	-0.25%/°C											
Temperature coefficients of Isc	0.045%/°C											
Nominal operating cell temperature (NOCT)	45±2 °C											