

HC MONO
540 - 555 Watt



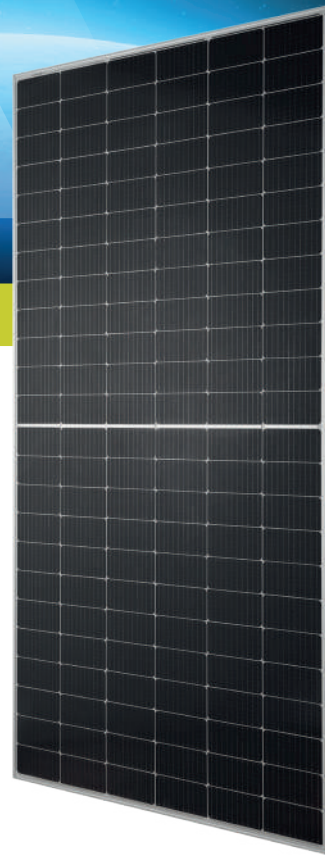
KEY FEATURES

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

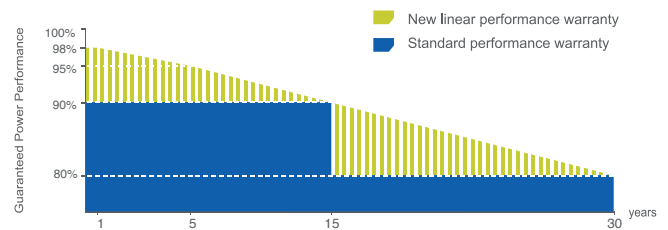


QUALITY AND SAFETY

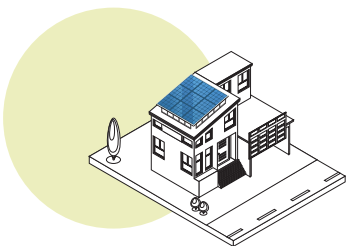
- Industry leading power output warranty
 15 years/90%,
 30 years/80%,
- 25-year warranty on materials & workmanship
- Fire Rating: Class 1



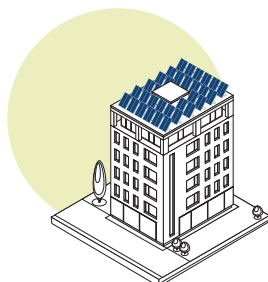
PREMIUM PERFORMANCE WARRANTY



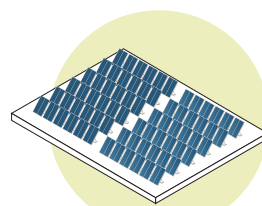
APPLICATIONS



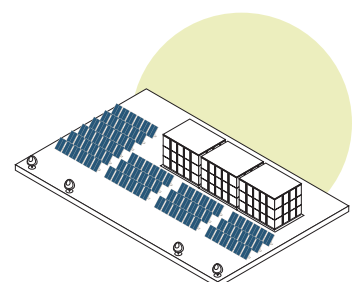
On-grid residential roof-tops



On-grid commercial - industrial roof-tops

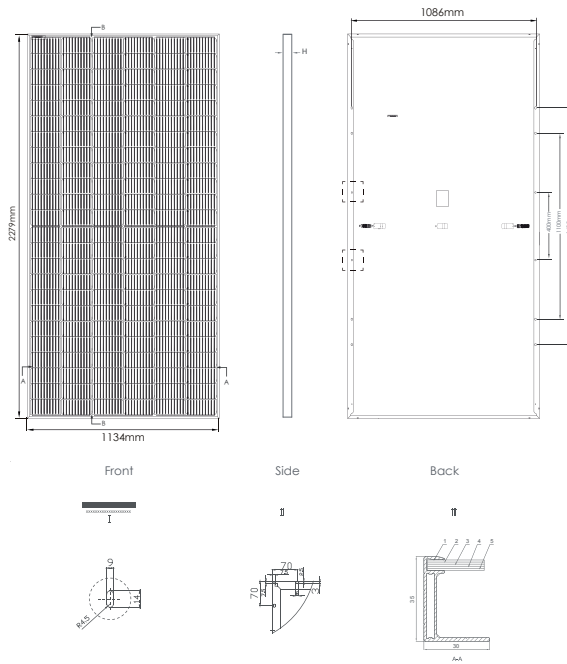


Solar power plants

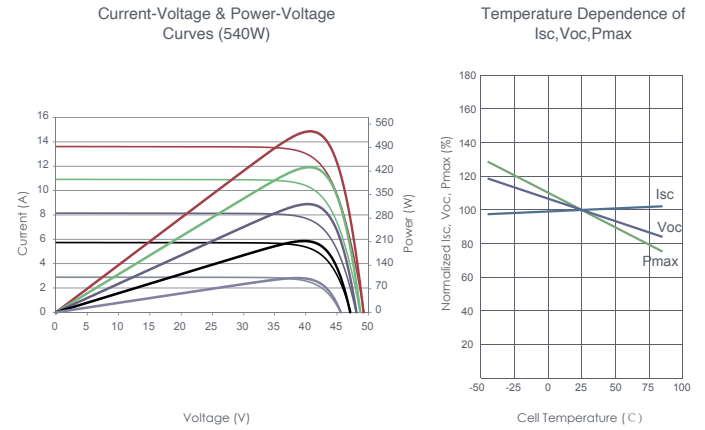


Off-grid systems

ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



PACKAGING CONFIGURATION

Standard packaging	62 pcs / pallet
Module quantity per 20' container	155pcs/20GP
Module quantity per 40' container	620pcs/40HQ

MECHANICAL CHARACTERISTICS

Cell Type	Orion Perc Mono-crystalline (182x91mm)
No. of cells	144 (2x72)
Dimensions	2279x1134x35mm
Weight	28.30kg
Front Glass	Orion Technology
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TÜV 1x4.0mm ² UL 12AWG, Length:400mm/1300mm

SPECIFICATIONS

Module Type	TKA540M-144	TKA545M-144	TKA550M-144	TKA555M-144
Maximum Power at STC (Pmax)	540Wp	545Wp	550Wp	555Wp
Maximum Power Voltage (Vmp)	41.20V	41.40V	41.60V	41.80V
Maximum Power Current (Imp)	13.11A	13.17A	13.23A	13.30A
Open-circuit Voltage (Voc)	49.40V	49.60V	49.80V	50.00V
Short-circuit Current (Isc)	13.87A	13.93A	13.99A	14.05A
Module Efficiency (%)	20.89%	21.09%	21.28%	21.48%
Operating Temperature (°C)	-40°C ~ +85°C			
Maximum system voltage	1500V DC			
Maximum series fuse rating	25A			
Power tolerance	0 ~ +5W			
Temperature coefficients of Pmax	-0.35%/°C			
Temperature coefficients of Voc	-0.28%/°C			
Temperature coefficients of Isc	0.048%/°C			
Nominal operating cell temperature (NOCT)	45±2 °C			

STC Irradiance 1000W/m²



Module Temperature 25°C



AM=1.5