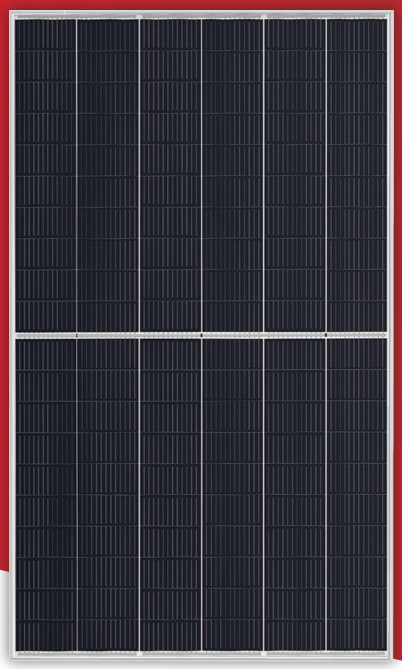
KTECH ENERGY

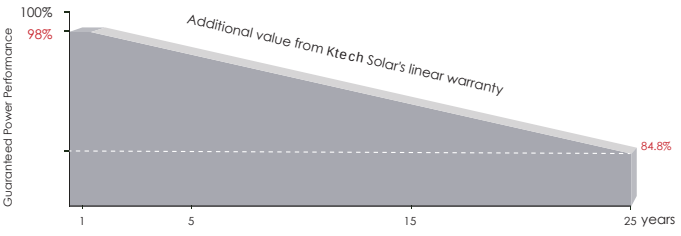
590-605W

High Efficiency Half-Cell Mono PERC Module



- Excellent low irradiance performance.
- Better light trapping and current collection to improve module power output and reliability.
- Industry leading lowest thermal co-efficient of power.
- Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.
- Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).
- 100% triple EL test enabling remarkable reduction of hidden crack rate of modules

LINEAR PERFORMANCE WARRANTY



15 years
Product quality & process guarantee

25 years
Linear power guarantee

0.55 %
Annual Degradation Over 25 years

COMPREHENSIVE CERTIFICATES

ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and Safety Assessment System Standard

* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

PERFORMANCE INSURANCE

Ariel Re

LLOYD'S Underwriters

中国平安
PING AN
P & C INSURANCE CO CN SZN

ELECTRIC CHARACTERISTICS

120 cells

Model of modules	SS-590-60MDH-G12		SS-595-60MDH-G12		SS-600-60MDH-G12		SS-605-60MDH-G12	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	590	447	595	451	600	454	605	458
Open-circuit voltage — V_{oc} (V)	41.12	38.72	41.31	38.91	41.52	39.12	41.72	39.31
Short-circuit current — I_{sc} (A)	18.42	14.85	18.47	14.88	18.52	14.92	18.57	14.96
Maximum power voltage — V_{mp} (V)	34.01	31.73	34.22	31.93	34.42	32.02	34.61	32.21
Maximum power current — I_{mp} (A)	17.35	14.09	17.39	14.13	17.44	14.18	17.49	14.22
Module efficiency — η_m (%)	20.8%		21.0%		21.2%		21.4%	
Power tolerance (W)	(0,+5)							
Maximum system voltage (V)	1500							
Maximum rated fuse current (A)	30							
Current operating temperature (°C)	-40~+85 °C							

STC (Standard Testing Conditions): Irradiance 1000W/m^2, Cell Temperature 25 ℃ , Spectra at AM1.5
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m^2, Ambient Temperature 20℃ , Spectra at AM1.5, Wind at 1m/s

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2172 x 1303 x 35 mm
Weight	30.9 kg
Number of cells	120 cells
Cell	PERC Monocrystalline 210x105 mm
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm^2, wire length: 300 mm or Customized Length
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

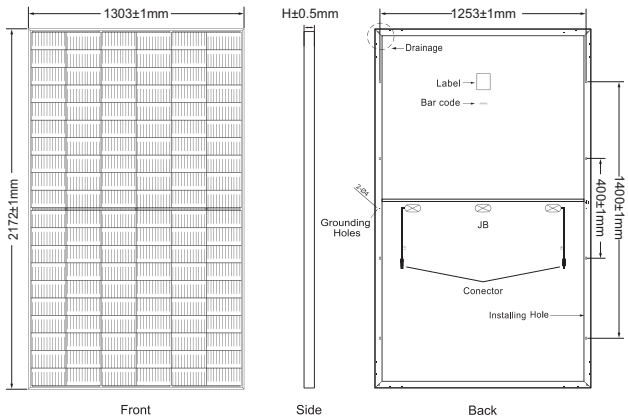
TEMPERFORMANCE RATINGS

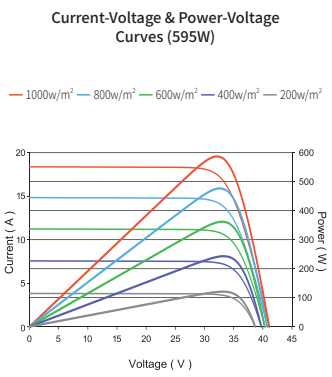
Temperature coefficient (P_{max})	-0.34 %/°C
Temperature coefficient (V_{oc})	-0.25 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal operating cell temperature	43±2 °C

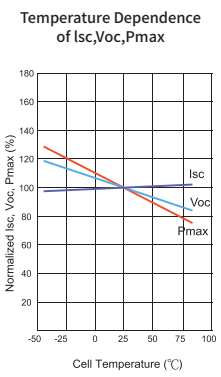
PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	31
Pallets/container	18
Quantity/container	558

MODULE DIMENSIONS (MM)







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