

400-415W

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).

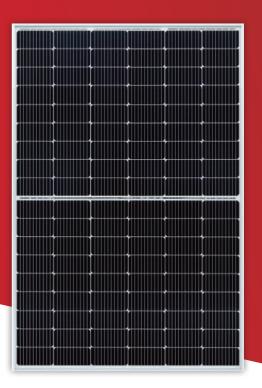


100% triple EL test enabling remarkable reduction of hidden crack rate of modules

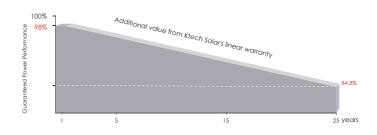
PERFORMANCE INSURANCE







LINEAR PERFORMANCE WARRANTY



15 years Product quality & process guarantee

vears Linear power guarantee

0.55 Annual Degradation Over 25 years

COMPREHENSIVE CERTIFICATES



ECM

ISO 9001: Quality Management System ISO 14001: Environmental Management System Standard OHSAS 18001: International Occupational Health and Safety Assessment System Standard

Cac

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



ELECTRIC CHARACTERISTICS

Model of modules	KE-400-54MDH		KE-405-54MDH		KE-410-54MDH		KE-415-54MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P _{mp} (W)	400	298	405	302	410	305	415	309
Open-circuit voltage — V_{oc} (V)	37.18	34.95	37.33	35.09	37.68	35.42	37.79	35.59
Short-circuit current — I _{sc} (A)	13.39	10.85	13.44	10.89	13.59	11.01	13.72	11.12
Maximum power voltage $- V_{mp}(V)$	31.42	29.22	31.55	29.35	31.84	29.61	31.94	29.72
Maximum power current — I_{mp} (A)	12.74	10.21	12.84	10.29	12.88	10.31	13.01	10.42
Module efficiency – η_m (%)	20.5%		20.7%		21.0%		21.2%	
Power tolerance (W)	(0,+5)							
Maximum system voltage (V)	1500							
Maximum rated fuse current (A)	25							
Current operating temperature (°C)	-40~+85 °C							

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C , Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	1724 x 1134 x 30 mm	
Weight	21.5 kg	
Number of cells	108 cells	
Cell	PERC Monocrystalline 182x91 mm	
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron	
Frame	Anodized aluminum alloy	
Junction box	IP68, 3 diodes	
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	

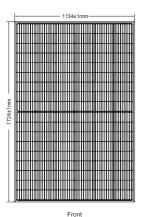
TEMPERFORMANCE RATINGS

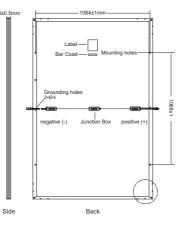
Temperature coefficient (P _{max})	-0.35 %/°C
Temperature coefficient (V_{oc})	-0.27 %/°C
Temperature coefficient (I_{sc})	+0.05 %/°C
Nominal operating cell temperature	45±2℃

PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	36
Pallets/container	26
Quantity/container	936

MODULE DIMENSIONS (MM)

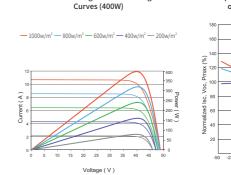




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Current-Voltage & Power-Voltage

Temperature Dependence of lsc,Voc,Pmax

