

KS***-144-M182

MONO-FACIAL MODULE

P-Type

Positive power tolerance of 0~+5W

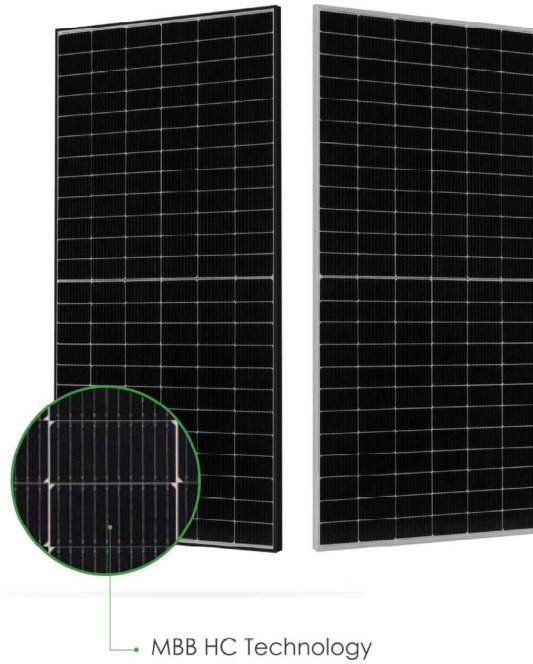
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Key Features



Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

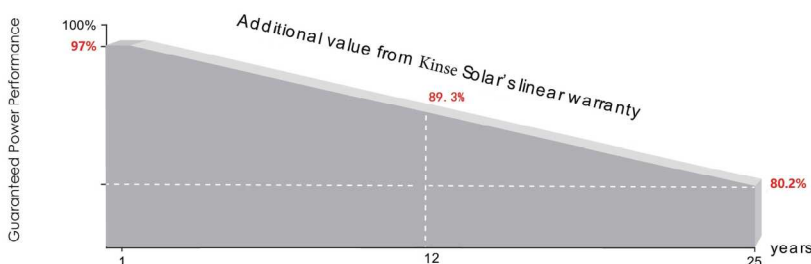


Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



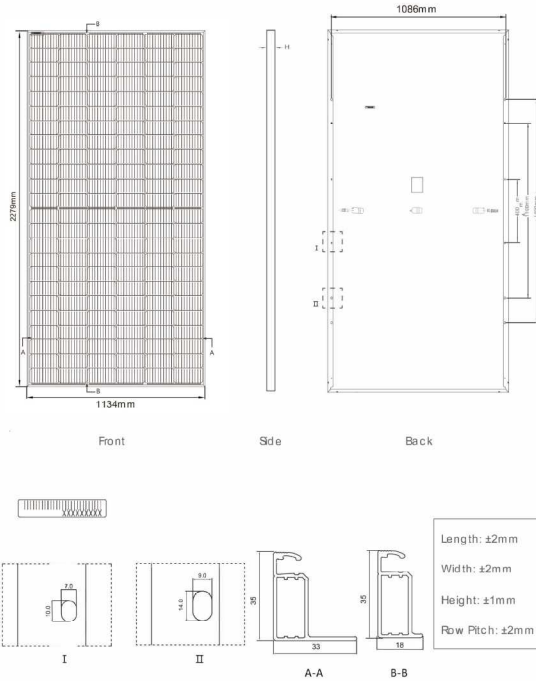
LINEAR PERFORMANCE WARRANTY



10 Year Product Warranty

25 Year Linear Power Warranty

Engineering Drawings

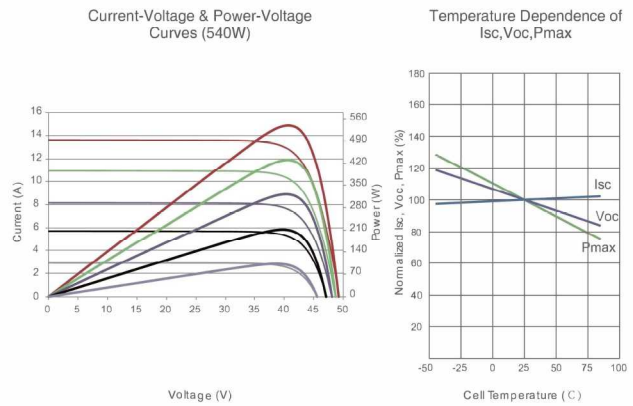


Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2279×1134×35mm
Weight	29.1 kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 300mm, (-): 300mm or Customized Length
Connector	Make: Tonglin Model: TL-CABLE01S

SPECIFICATIONS

Module Type	KS530-144-M182		KS535-144-M182		KS540-144-M182		KS545-144-M182		KS550-144-M182	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	530Wp	400.6Wp	535Wp	404.3Wp	540Wp	408.0Wp	545Wp	411.5Wp	550Wp	415.0Wp
Maximum Power Voltage (Vmp)	43.39V	38.20V	41.57V	38.40V	41.75V	38.60V	41.87V	38.70V	42.05V	38.90V
Maximum Power Current (Imp)	12.81A	10.47A	12.87A	10.53A	12.94A	10.58A	13.02A	10.63A	13.08A	10.67A
Open-circuit Voltage (Voc)	49.24V	46.30V	49.39V	46.40V	49.54V	46.50V	49.69V	46.70V	49.88V	46.90V
Short-circuit Current (Isc)	13.76A	11.02A	13.83A	11.08A	13.89A	11.13A	13.96A	11.18A	14.01A	11.22A
Module Efficiency STC (%)	20.52%		20.71%		20.90%		21.10%		21.29%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
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									
Country of manufacture	Made In China									
Fire Rating	Class C									

*STC: Irradiance 1000W/m²

Ambient Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

Power Allowance Range: ±3%

Specifications included in this datasheet are subject to change without notice.

Maanshan Kinse Energy Technology Co., LTD