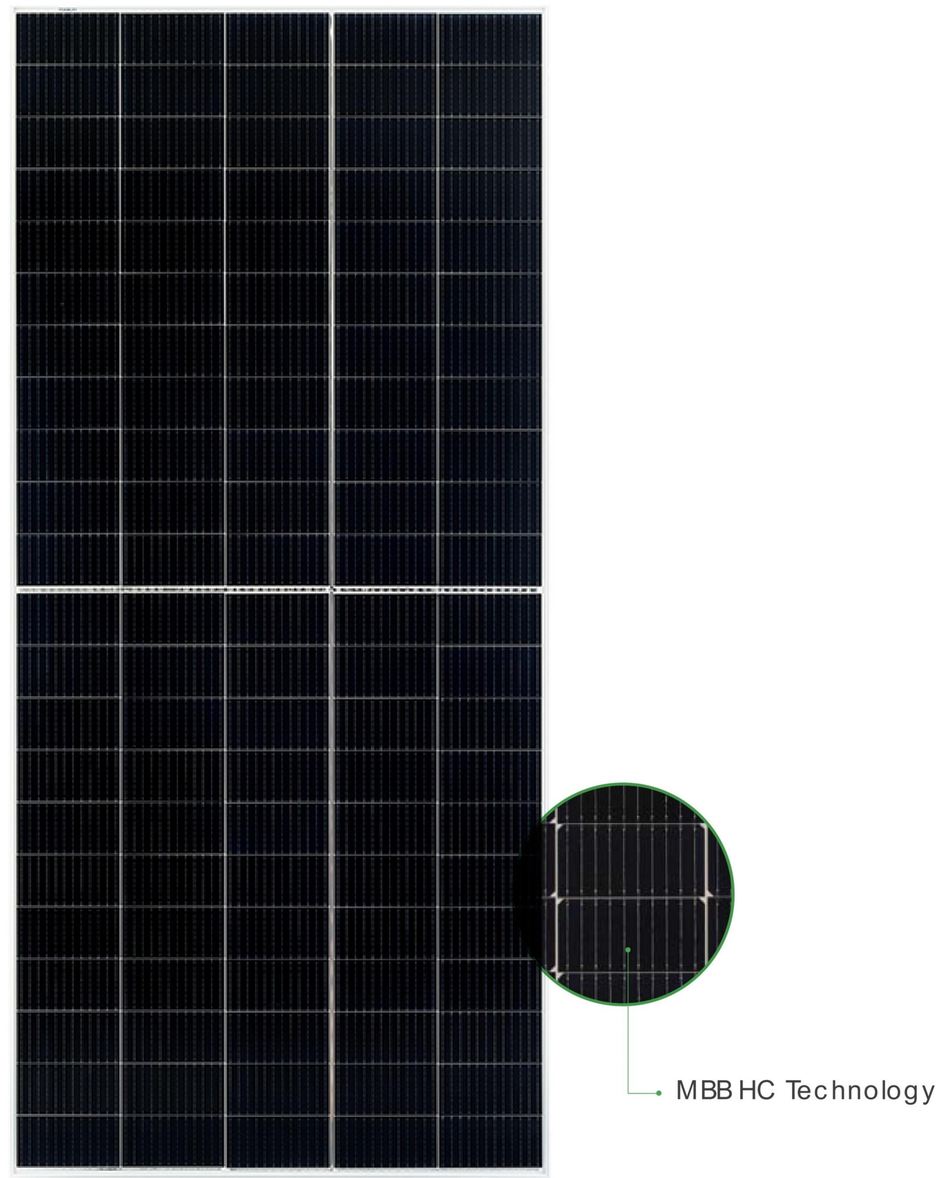
WWW.KINSE-SOLAR.COM

Kinse Solar

*KS***-110-M210*

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.

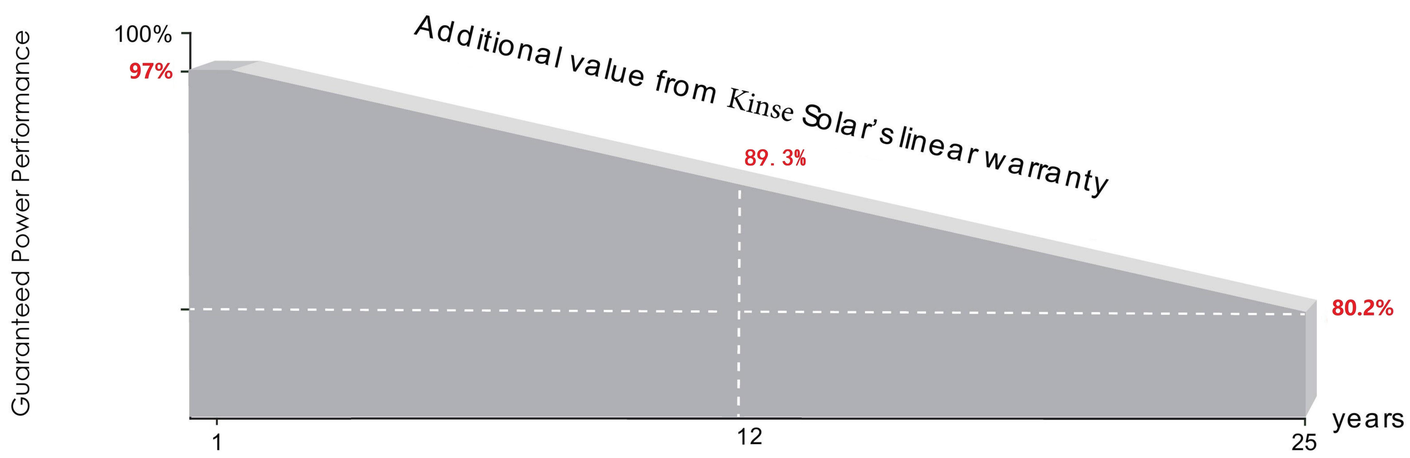
Enhanced Mechanical Load

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.

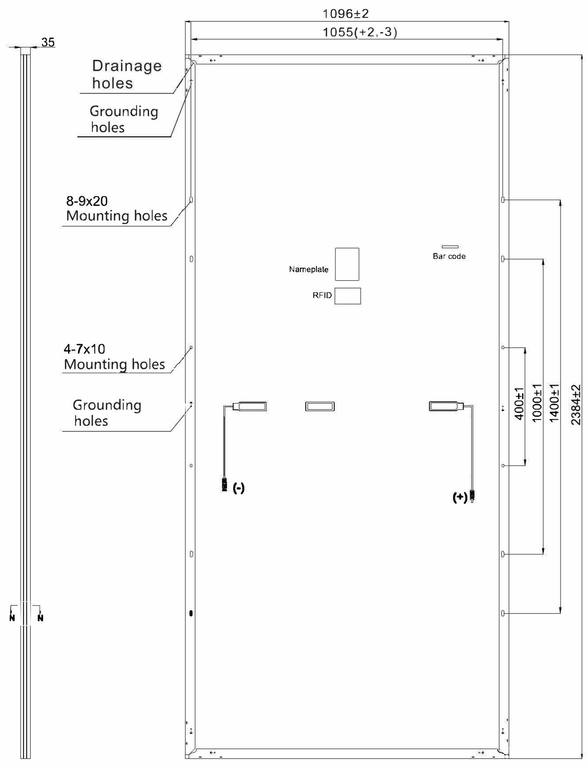
LINEAR PERFORMANCE WARRANTY

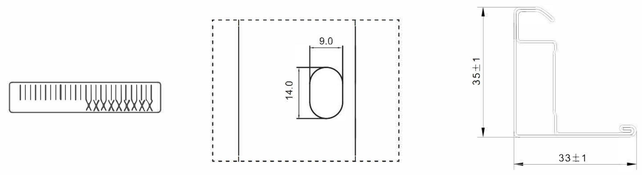


10 Year Product Warranty

25 Year Linear Power Warranty

Engineering Drawings





Length: ±2mm

Width: ±2mm

Height: ±1mm

Row Pitch: ±2mm

Packaging Configuration

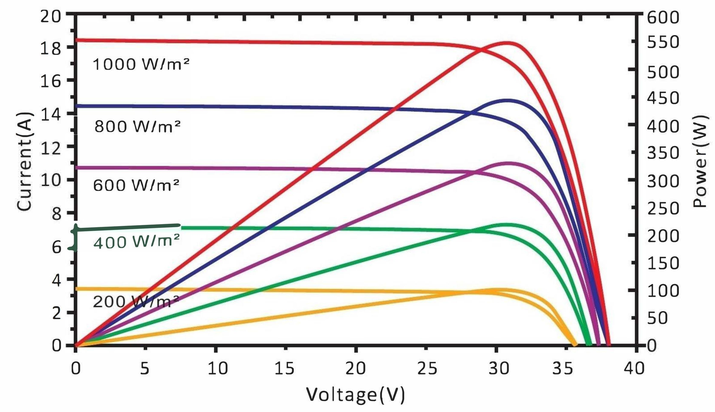
(Two pallets = One stack)

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

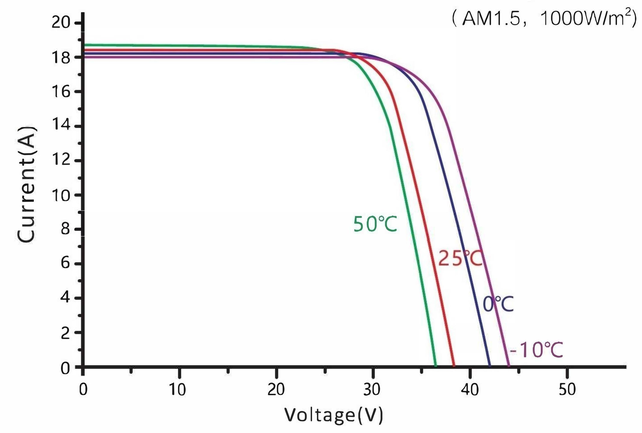
Electrical Performance & Temperature Dependence

RSM110-8-545M

I-V characteristics at different irradiations



I-V characteristics at different temperatures



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	110 (2x55)
Dimensions	2384×1096×35mm
Weight	28.8 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 1×4.0mm² (+): 300mm , (-): 300mm or Customized Length
Connector	Make: Tonglin Model: TL-CABLE01S

SPECIFICATIONS

Module Type	KS540-110-M210		KS545-110-M210		KS550-110-M210		KS555-110-M210		KS560-110-M210	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	540Wp	409.0Wp	545Wp	412.8Wp	550Wp	416.7Wp	555Wp	420.5Wp	560Wp	424.3Wp
Maximum Power Voltage (Vmp)	31.20V	29.19V	31.40V	29.38V	31.60V	29.57V	31.80V	29.75V	32.00V	29.94V
Maximum Power Current (Imp)	17.33A	14.01A	17.37A	14.05A	17.40A	14.09A	17.45A	14.13A	17.50A	14.17A
Open-circuit Voltage (Voc)	37.50V	35.14V	37.70V	35.36V	37.90V	35.56V	38.10V	35.77V	38.40V	35.97V
Short-circuit Current (Isc)	18.41A	14.91A	18.47A	14.95A	18.52A	14.99A	18.56A	15.03A	18.60A	15.07A
Module Efficiency STC (%)	20.67%		20.86%		21.05%		21.24%		21.43%	
Operating Temperature(℃)	-40℃~+85℃									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+5W									
Temperature coefficients of Pmax	-0.35%/℃									
Temperature coefficients of Voc	-0.28%/℃									
Temperature coefficients of Isc	0.048%/℃									
Nominal operating cell temperature (NOCT)	45±2℃									
Country of manufacture	Made In China									
Fire Rating	Class C									

Kinse Solar

*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