

RT7K-425-460M-BD

RS7K-425-460M-BD is a robust solar module with 144 Bifacial 182mm cells . These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee Resun Solar's modules meet the highest quality standards possible

144 Cells

Bifacial-monocrystalline

425-460W

Power output

21.26%

The Highest Efficiency

0~ +5W

Tolerance



High module conversion efficiency (up to 21.26%), through superior manufacturing technology



Guaranteed 0~+5W positive power output tolerance ensures high reliability



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust

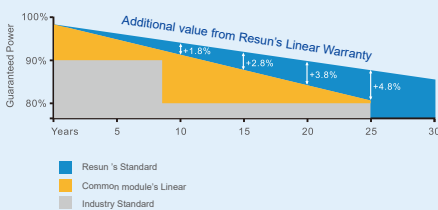


Excellent performance under low light environments (mornings, evenings and cloudy days)



Suitable for harsh environments, such as coasts, deserts and lakes Withstand high level of wind loads(2400pa) and snow loads(5400pa)

0.5% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY
12 year Product Warranty / 30 year Linear Power Warranty

Full range of products and certification systems

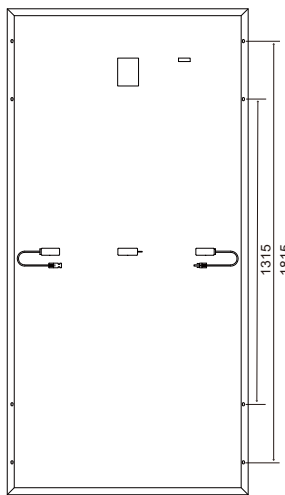
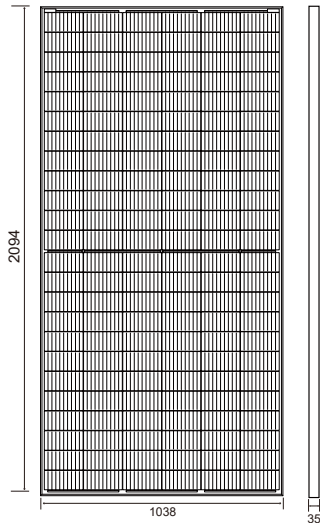
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



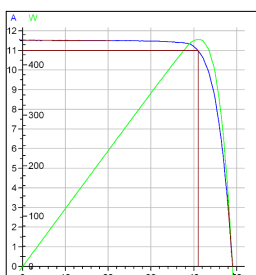
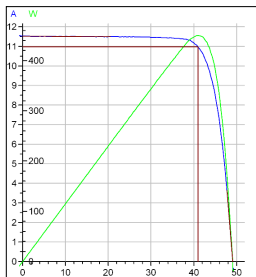
RT7K-425-460M-BD

GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



CHARACTERISTIC CURVSE | RT7K-455M-BD



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	425	430	435	440	445	450	455	460
Open Circuit Voltage-Voc(V)	48.30	48.50	48.70	48.90	49.10	49.30	49.50	49.70
Short Circuit Current-Isc(A)	11.23	11.31	11.39	11.46	11.53	11.60	11.67	11.74
Maximum Power Voltage-Vmp(V)	40.50	40.70	40.90	41.10	41.30	41.50	41.70	41.90
Maximum Power Current-Imp(A)	10.50	10.57	10.64	10.71	10.78	10.85	10.91	10.98
Module Efficiency (%)	19.55%	19.78%	20.01%	20.24%	20.47%	20.70%	20.93%	21.16%

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	317.4	321.1	324.9	328.6	332.3	336.1	339.8	343.6
Open Circuit Voltage-Voc (V)	45.30	45.50	45.70	45.80	46.00	46.20	46.40	46.60
Short Circuit Current-Isc (A)	9.08	9.15	9.21	9.27	9.33	9.38	9.43	9.48
Maximum Power Voltage-Vmp(V)	37.70	37.90	38.10	38.30	38.50	38.70	38.90	39.10
Maximum Power Current-Imp(A)	8.42	8.47	8.53	8.59	8.64	8.68	8.74	8.79

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5% ^{pmax}	446	452	457	462	467	473	478	483
module Efficiency(%)	20.5%	20.8%	21.0%	21.3%	21.5%	21.7%	22.0%	22.2%
15% ^{pmax}	489	495	500	506	512	518	523	529
module Efficiency(%)	22.5%	22.8%	23.0%	23.3%	23.5%	23.8%	24.1%	24.3%
25% ^{pmax}	531	538	544	550	556	563	569	575
module Efficiency(%)	24.4%	24.7%	25.0%	25.3%	25.6%	25.9%	26.2%	26.5%

MECHANICAL DATA

Solar cells	Mono-crystalline 166*83mm
Cell configuration	144cells(6*24)
Module dimensions	2094*1038*35mm
Weight	25Kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68
Cable	4mm ² (IEC)/12AWG(UL),300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/pallet

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficient of Voc	- 0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	- 0.39%/°C
Operational Temperature	- 40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	726pcs
Package	31pcs/pallet,2pcs/cartonbox
Package Weight	22pallets+22carton boxes
Package Number	821kg/pallet
Package Dimension	2125*1130*1170mm/pallet