

490W JAT54S4F GR

n-type Monofacial Module

Module effi
up to **24.5%**



Premium Aesthetic Design for
Rooftop Integration



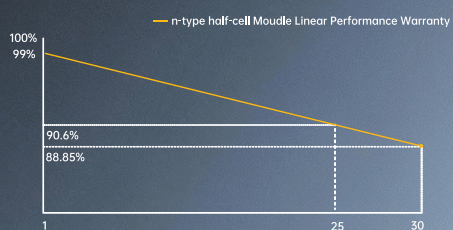
Superior Efficiency for
Maximum Energy Yield



Advanced Cell & Module Technology for
Better Performance in Partial Shade



Outstanding High-Temperature
Performance & Long-Term Reliability



1% 1st-year Degradation 0.35% Annual Degradation Over 30 years



25-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

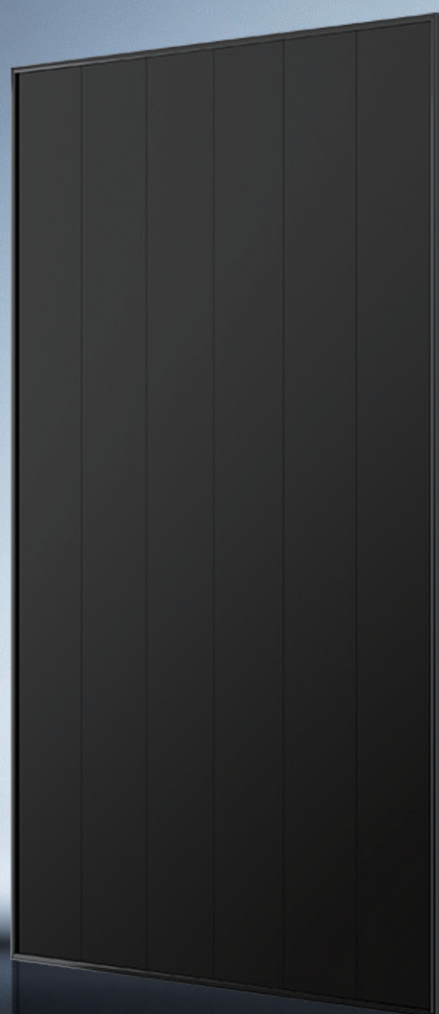
IEC 61215, IEC 61730

ISO 9001: 2015 Quality management systems

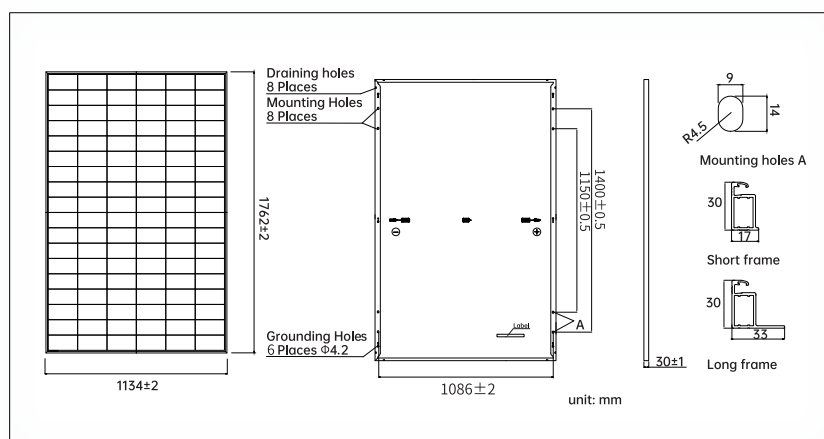
ISO 14001: 2015 Environmental management systems

ISO 45001: 2018 Occupational health and safety
management systems

IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality
system for PV module manufacturing



JAT54S4F G R_n-type Monofacial Module



MECHANICAL PARAMETERS

Cell	Mono
Weight	19.3kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3diodes
Connector	MC4-EVO2A/QC 4.10-351
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1200mm(+)/1200mm(-)
Frame	Anodized Aluminium Alloy
Front Glass	2.8mm, Anti-reflection Coating
Backsheet	Black Polymeric Backsheet
Packaging Configuration	37pcs/Pallet, 962pcs/40HQ Container

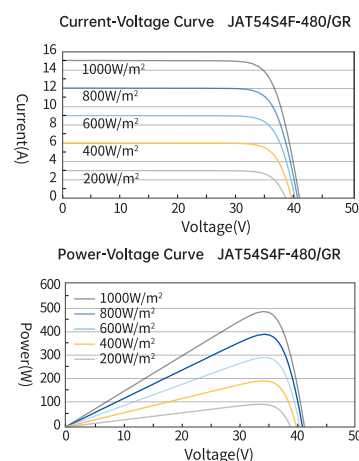
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAT54S4F -465/GR	JAT54S4F -470/GR	JAT54S4F -475/GR	JAT54S4F -480/GR	JAT54S4F -485/GR	JAT54S4F -490/GR
Rated Maximum Power(P _{max}) [W]	465	470	475	480	485	490
Open Circuit Voltage (V _{oc}) [V]	40.82	40.89	40.96	41.03	41.10	41.17
Maximum Power Voltage(V _{mp}) [V]	34.46	34.60	34.74	34.87	35.00	35.13
Short Circuit Current(I _{sc}) [A]	14.87	14.93	14.99	15.05	15.11	15.17
Maximum Power Current(I _{mp}) [A]	13.50	13.59	13.68	13.77	13.86	13.95
Module Efficiency [%]	23.3	23.5	23.8	24.0	24.3	24.5
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.050%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.220%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.260%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

CHARACTERISTICS



ELECTRICAL PARAMETERS AT NOCT

TYPE	JAT54S4F -465/GR	JAT54S4F -470/GR	JAT54S4F -475/GR	JAT54S4F -480/GR	JAT54S4F -485/GR	JAT54S4F -490/GR
Rated Max Power(P _{max}) [W]	352	356	360	364	368	371
Open Circuit Voltage(V _{oc}) [V]	38.73	38.79	38.86	38.92	38.99	39.06
Max Power Voltage(V _{mp}) [V]	32.70	32.82	32.96	33.08	33.21	33.33
Short Circuit Current(I _{sc}) [A]	12.02	12.06	12.12	12.16	12.21	12.26
Max Power Current(I _{mp}) [A]	10.79	10.86	10.94	11.01	11.08	11.15
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C~+70°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front	5400Pa(112 lb/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1/Class C

*PV module 98th percentile operating temperature : 70°C