

485W JAT54S41 LR

n-type Monofacial Module

Module effi
up to **24.3%**



Premium Aesthetic Design for
Rooftop Integration



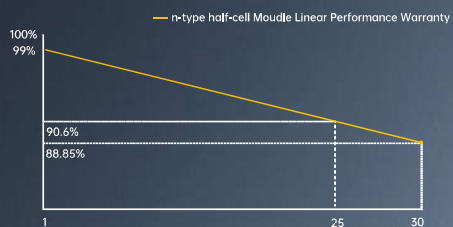
Superior Efficiency for
Maximum Energy Yield



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

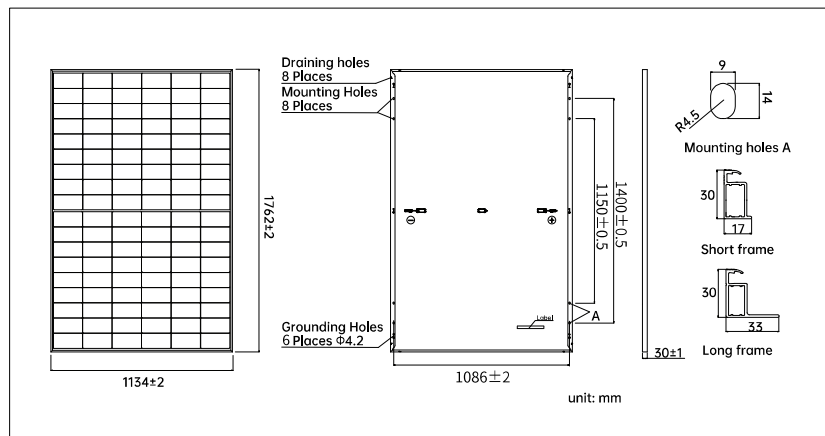
ISO 14001: 2015 Environmental management systems

ISO 45001: 2018 Occupational health and safety
management systems

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



JAT54S41 LR 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

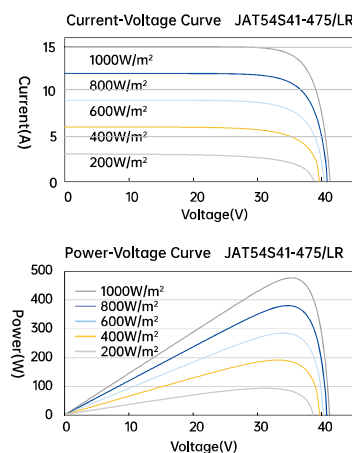
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAT54S41 -460/LR	JAT54S41 -465/LR	JAT54S41 -470/LR	JAT54S41 -475/LR	JAT54S41 -480/LR	JAT54S41 -485/LR
Rated Maximum Power(P _{max}) [W]	460	465	470	475	480	485
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]	14.72	14.78	14.84	14.90	14.96	15.02
Maximum Power Current(I _{mp}) [A]	13.36	13.45	13.54	13.63	13.72	13.81
Module Efficiency [%]	23.0	23.3	23.5	23.8	24.0	24.3
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	JAT54S41 -460/LR	JAT54S41 -465/LR	JAT54S41 -470/LR	JAT54S41 -475/LR	JAT54S41 -480/LR	JAT54S41 -485/LR
Rated Max Power(P _{max}) [W]	347	351	354	358	362	366
Open Circuit Voltage(V _{oc}) [V]	38.54	38.61	38.68	38.74	38.81	38.88
Max Power Voltage(V _{mp}) [V]	32.54	32.67	32.81	32.92	33.05	33.18
Short Circuit Current(I _{sc}) [A]	11.90	11.95	12.00	12.04	12.10	12.15
Max Power Current(I _{mp}) [A]	10.67	10.74	10.80	10.88	10.94	11.02
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