



JASOLAR

In partnership with Regen Renewables - Powering a Greener Future

415-440

The JA Solar N-Type Bifacial double glass mono module delivers high-efficiency performance. Built for durability and optimised for maximum energy yield, this advanced panel captures sunlight from both sides - making it ideal for residential, commercial, and utility-scale installations.



- Higher Power Generation better LCOE
- N-Type with very Lower LID
- Better Temperature Coefficient
- Better Low Irradiance Response

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MODEL	JAM54D41 -415/GB	JAM54D41 -420/GB	JAM54D41 -425/GB	JAM54D41 -430/GB	JAM54D41 -435/GB	JAM54D41 -440/GB
ELECTRICAL PARAMETERS AT STC						
Rated Maximum Power (Pmax)(W)	415	420	425	430	435	440
Open Circuit Voltage (Voc)(V)	38.00	38.28	38.56	38.84	39.11	39.38
Maximum Power Voltage (Vmp)(V)	32.13	32.38	32.64	32.88	33.13	33.37
Short Circuit Current (Isc)(A)	13.60	13.65	13.70	13.75	13.80	13.85
Maximum Power Current (Imp)(A)	12,92	12.97	13.02	13.08	13.13	13.18
Module Efficiency (%)	21.3	21.5	21.8	22.0	22.3	22.5
Power Tolerance	0~+3%					
Temperature Coefficient of Isc (a_Isc)	+0.046%/°C					
Temperature Coefficient of Voc (B_Voc)	+0.260%/°C					
Temperature Coefficient of Pmax (y_Pmp)	+0.290%/°C					
STC	Irradiance 1000W/ m², cell temperature 25°C,					
Communication	RS485, Meter / CT, DRM					
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO						
Rated Maximum Power (Pmax)(W)	448	454	459	464	470	475
Open Circuit Voltage (Voc)(V)	38.00	38.28	38.56	38.84	39.11	39.38
Maximum Power Voltage (Vmp)(V)	32.13	32.38	32.64	32.88	33.13	33.37
Short Circuit Current (Isc)(A)	14.69	14.74	14.80	14.85	14.90	14.96
Maximum Power Current (Imp)(A)	13.95	14.01	14.06	14.12	14.18	14.24
Module Efficiency (%)	10%					
OPERATING CONDITIONS						
Maximum System Voltage	1500V DC		Cell	Mono		
Operating Temperature	-40°C ~+ 85°C		Weight	21.5kg		
Maximum Series Fuse Rating	30A		Dimensions	1722±2mmx1134±2mmx30x1mm		
Maximum Static Load, Front	5400Pa(112 lb/ft²)		Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)		
Maximum Static Load, Back	2400Pa(50 lb/ft²)		No. of Cells	108(6x18)		
NOCT	45±2°C		Junction Box	IP68, 3 diodes		
Bifaciality*	80%±10%		Connector	QC 4.10-351/MC4-EVO2A		
Fire Performance	UL Type 38		Front Glass/ Back Glass	1.6mm/1.6mm		