

SOLAR PACKAGE



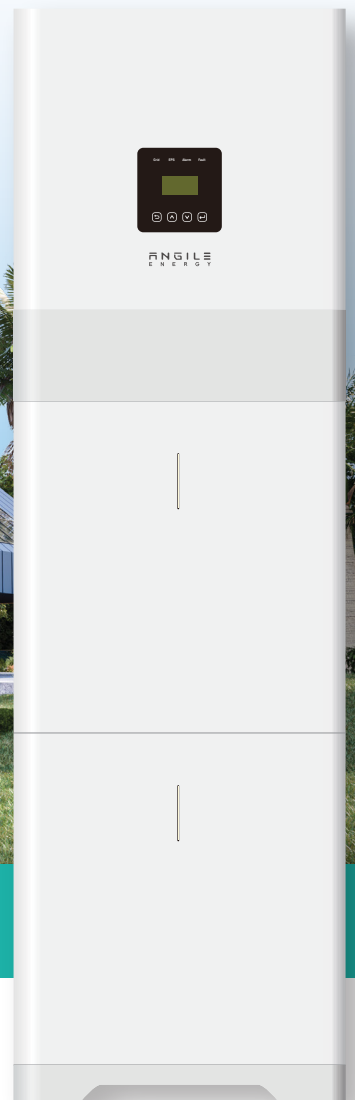
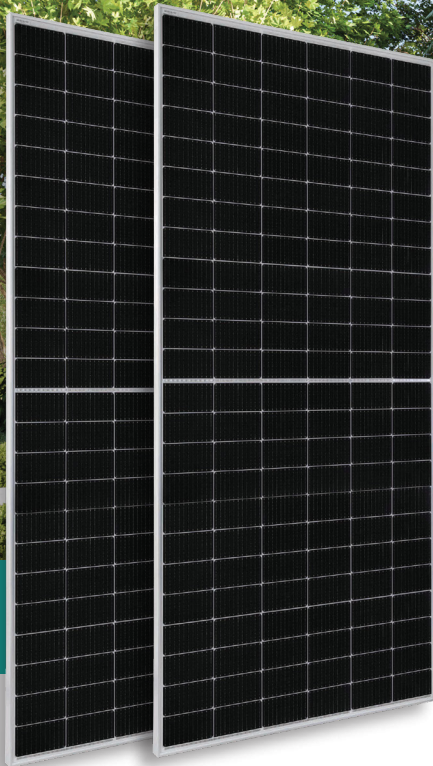
Hybrid Inverter



Battery Pack



PV Panels



iKran series
ePowerplus

Residential



Hybrid Inverter

Technical Specifications

CATEGORY	PARAMETER	AE4K6-L-S	AE5K-L-S	AE6K-L-S
Input (PV)	Max. PV Input Power	6kW	7kW	7kW
	Max. PV Input Voltage		550V	
	Start Voltage		120V	
	MPPT Voltage Range		125V ~ 550V	
	Rated MPPT Voltage		360V	
	Max. PV Input Current		14A	
	Number of MPP Trackers / String per MPPT		2 / 1	
Output (AC)	Max. Output Current	20A	21.7A	26A
	Rated Power	4.6kVA	5kVA	6kVA
	Rated Voltage		230V, L + N + PE	
	Operating Voltage Range		180V ~ 280V	
	Frequency		50Hz / 60Hz	
	Power Factor		0.9ind...0.9cap	
	THDi		<3%	
Output (EPS)	Rated Power	4.6kVA	5kVA	6kVA
	Rated Voltage		230Vac	
	Rated Current	20A	21.7A	26A
	Rated Frequency		50Hz / 60Hz	
	Automatic Switch Time		<20ms	
	Overload Capability		110%, 60s / 120%, 30s / 150%, 10s	
	THDU		<2%	
Efficiency	Max. DC Efficiency		97.60%	
	European Efficiency		97%	
	MPPT Efficiency		99.90%	
	Battery Charge / Discharge Efficiency		95.5% / 95%	
Communication	Display		LCD	
	Communication		standard: RS485 / CAN / DRM optional: WIFI / LAN	
Standard Compliance	Certificates	CE、TÜV、SAA、IEC62116:2014、IEC61683:1999		
General Data	Dimensions (W x H x D)	550 x 515 x 198 mm		
	Weight	26kg		
	Operation Temperature	-25°C ~ 60°C		
	Cooling Method	Natural Cooling		
	Protection Degree	IP65		
	Noise Emission	<35dB		
	Max. Operating Altitude	5000m (derating above 2000m)		
	Relative Humidity	0 ~ 95% (non-condensing)		
	Topology	Transformerless		
	Standby Power Consumption	< 3W		

BATTERY**Technical Specifications**

CATEGORY	PARAMETER	SPECIFICATION
BATTERY PACK	Nominal Voltage (V)	51.2
	Operating voltage range (V)	44.8~58.4
	Energy Capacity (kWh)	5.376
	Usable Capacity (kWh)	4.84
	Rated capacity (Ah)	105
	Standard power (kW)	2.56
	Max. charge/discharge power (kW)	5.0/5.0
	Recommend charge/discharge current (A)	50/50
	Max. charge/discharge current (A)	50/70
	Cycle life (90% DoD)	>6000 cycles*
	Expected life time/Warranty (Year)	10
	Operating temperature range (°C)	-17~50
	Storage temperature (°C)	-20~60
	Humidity (%)	0~95(no condensation)
	Altitude (m)	2000
	Ingress protection	IP65
	System to inverter communication/Communication with BMS	RS485/CAN
	Main LED indicator	LED
	System switch (on/off)	BMS button
	Safety certificate	IEC/EN 62619, IEC 63056
GENERAL DATA	EMC	IEC61000-6-1, 1EC61000-6-3
	UN number	UN3480
	Dimensions (L*W*H) (mm)	550*550*198
	Weight (kg)	59
	Cooling	Natural
	Standard warranty (Year)	10



Active detection
to prevent failures
and danger



Low noise
<35dB(A)



Switching time
<20ms



IP65 waterproof
and dustproof



Low
voltage



Long warranty
10 Years



Slim Design
Hang on the wall
or stand alone



Remote
control



Certified
BESS

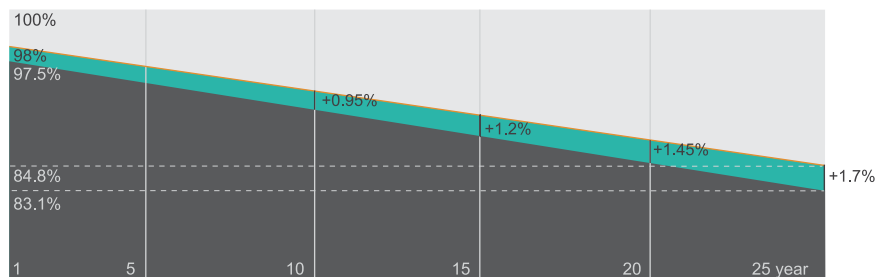
Solar Panel Specifications

JAM72S30 530-555/MR Series

SUPERIOR WARRANTY

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation
Over 25 years



■ New linear power warranty ■ Standard module linear power warranty

SPECIFICATIONS

Cell	Mono
Weight	27.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2/ QC 4.10-351
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); Landscape: 1300mm(+)/1300mm(-)
Packaging Configuration	36pcs/Pallet 720pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR	JAM72S30 -555/MR
Rated Maximum Power(Pmax) [W]	530	535	540	545	550	555
Open Circuit Voltage(Voc) [V]	49.30	49.45	49.60	49.75	49.90	50.02
Maximum Power Voltage(Vmp) [V]	41.31	41.47	41.64	41.80	41.96	42.11
Short Circuit Current(Isc) [A]	13.72	13.79	13.86	13.93	14.00	14.07
Maximum Power Current(Imp) [A]	12.83	12.90	12.97	13.04	13.11	13.18
Module Efficiency [%]	20.5	20.7	20.9	21.1	21.3	21.5
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_{Isc})	+0.045%/°C					
Temperature Coefficient of Voc(β_{Voc})	-0.275%/°C					
Temperature Coefficient of Pmax(γ_{Pmp})	-0.350%/°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.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR	JAM72S30 -555/MR
Rated Max Power(Pmax) [W]	401	405	408	412	416	420
Open Circuit Voltage(Voc) [V]	46.18	46.31	46.43	46.55	46.68	46.85
Max Power Voltage(Vmp) [V]	38.57	38.78	38.99	39.20	39.43	39.66
Short Circuit Current(Isc) [A]	11.01	11.05	11.09	11.13	11.17	11.21
Max Power Current(Imp) [A]	10.39	10.43	10.47	10.51	10.55	10.59
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

*For NexTracker installations, Maximum Static Load, Front is 1800Pa while Maximum Static Load, Back is 1800Pa.

OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front* Maximum Static Load, Back*	5400Pa(112lb/ft ²) 2400Pa(50lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1

COMPREHENSIVE CERTIFICATES

IEC 61215, IEC 61730, UL 61215, UL 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

