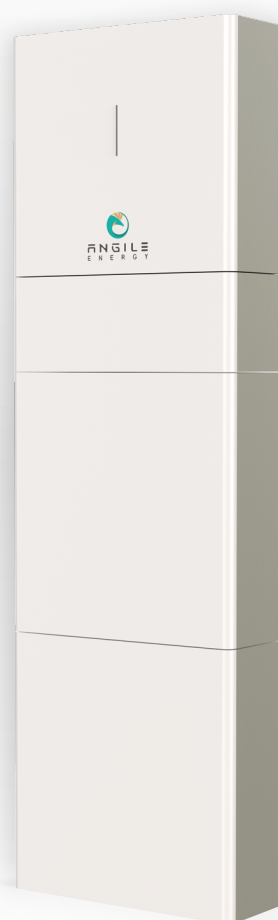
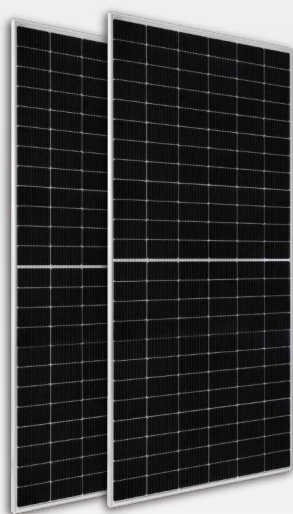


iKran series ePowerplus

Residential

A) + Solar Package



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iKran AIO **A**+HV Specifications

MODEL	A+HV-3.6H/5.12kWh A+HV-3.6H/10.24kWh	A+HV-4.6H/5.12kWh A+HV-4.6H/10.24kWh*	A+HV-5.0H/5.12kWh A+HV-5.0H/10.24kWh	A+HV-6.0H/5.12kWh A+HV-6.0H/10.24kWh
PCS UNIT				
PV INPUT(DC)				
Max.PV array power(Wp)	4800	6200	6650	8000
Max.DC voltage(V)		600		
Nominal DC operating Voltage(V)		360		
Max.input current(input A/input B)		12.5/12.5		
Max.short circuit current(input A/input B)		18/18		
MPPT voltage range(V)		100~550		
Start operating voltage(V)		90		
No. of MPP trackers/Strings per MPPT tracker		2/1		
INPUT(AC)				
Max.apparent AC power(VA)	7200	9200	10000	12000
Max.AC current(A)	31.2	40	43.4	52.2
Nominal grid voltage(AC voltage range)(V)		220/230/240		
Nominal grid frequency/range(Hz)		50/60		
OUTPUT AC				
Nomial AC power(Va)	3600	4600	5000	6000
Max.apparent AC power(VA)	3600	4600	5000	6000
Nominal grid voltage(AC voltage range)(V)		220/230/240		
Nominal grid frequency/range(Hz)		50/60		
Max.AC current(A)	17.2	22	23.9	28.7
Displacement power factor		1(-0.8~+0.8 adjustable)		
THDi, rated power(%)		< 3		
OUTPUT DC(BATTERY)				
Battery type		Lithium-ion		
Battery voltage range(V)	160~227.2		320~454.4	
Recommended battery voltage(V)	227.2		454.4	
Max.continuous charge/discharge current(A)		25/25		
Communication interfaces		RS485/CAN		
Reverse connect protection		Yes		
EPS OUTPUT(WITH BATTERY)				
EPS Max.continuous apparent power(Va)	4320	5520	6000	7200
EPS rated voltage(V),Frequency(Hz)		230 (2%),50/60 (0.2%)		
EPS Max.continuous current(A)		28.7		
Switching time(ms)		< 10		
THDv,linear load(%)		< 2		
EFFICIENCY				
MPPT efficiency(%)		99.9		
Euro efficiency(%)		97		
Max.efficiency(%)		97.6		
Battery charge/discharge efficiency(%)		98/96.7		
POWER CONSUMPTION				
Standby consumption(Night)(W)		< 5		
STANDARD				
Safety		IEC62040.1:2019 AS/NZS 4777.2:2020 IEC 62109-1&-2 IEC62619 UN38.3 IEC60730-1		
EMC		EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021		
ENVIRONMENT LIMIT				
Ingress protection(according to IEC60529)		IP65		
Operating temperature range(°C)		-10~55 (>45°C, Derating)		
Max.operation altitude(m)		2000		
Humidity(%)		0~95 (no condensation)		
Storage temperature(°C)		-20~60		
Noise emission(dB)		< 25		
BATTERY UNIT				
Nominal Voltage(V)		204.8		
Operating voltage range(V)		160~227.2		
Total Capacity(kWh)		5.12		
Usable Capacity(kWh)		4.6		
Rated capacity(Ah)		25		
Standard power(kW)		1.69		
Max charge/discharge power(kW)		5.68		
Recommend charge/discharge current(A)		8.25		
Max.charge/discharge current(A)		25		
DOD(%)		90		
Expected life time/Warranty(Year)		10		
Operating temperature range(°C)		-10~55		
Storage temperature(°C)		-20~60		
Humidity(%)		0~95 (no condensation)		
Altitude(m)		2000		
Ingress protection		IP65		
System to inverter communication/Communication with BMS		RS485		
System switch(on/off)		DC-PV2		
Safty certificate		IEC62040.1:2019 AS/NZS 4777.2:2020 IEC 62109-1&-2 IEC62619 UN38.3 IEC60730-1		
EMC		EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021		
UN number		3480		
Dimensions(L*W*H) mm		550*555*233		
Weight(kg)		47		
GENERAL DATA				
Dimensions(W*D*H)(mm)	550*233*1125(5.12kWh AIO)		550*233*1750(10.24kWh AIO)	
Weight(kg)	68		115	
Cooling		Natural		
Standard warranty(Years)		10		
*Only for Germany market				

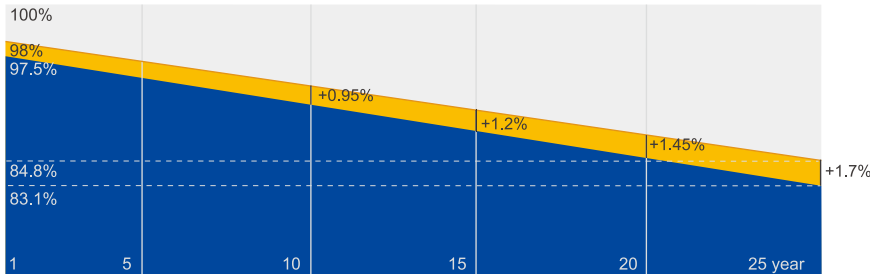
Solar Panel Specifications

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					

OPERATING CONDITIONS

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

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

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

