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# 'Peace of mind' Solution

Intelligent auto-response within 10 ms, without any power flickers ikran keeps your home warm and your appliances running all the time.

Quiet and efficient, iKran operates below 35 dB, you won't even notice it.



# 10 YEARS WARRANTY

# Worry Free Clean Future

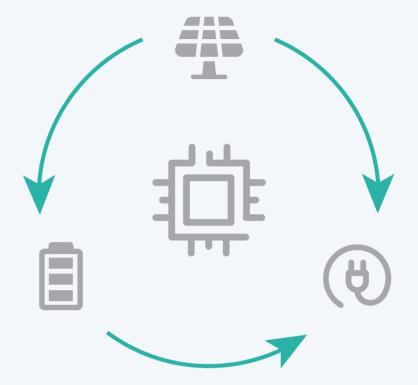




# Maximum Solar Power **Self-Consumption**

The extra electricity generated from a solar PV system is typically fed into the grid. However, most homes use a significant amount of electricity in the evening when PV is not generating power.

With the iKran ePowercube, the excess power will be stored, and clean energy can power your home when the sun is not shining.









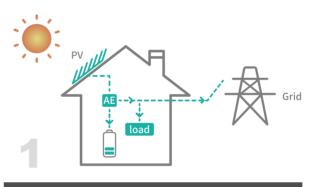




# Multiple working modes

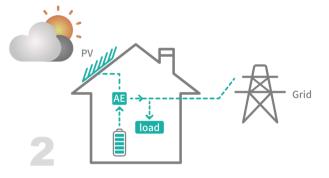
iKran smart BESS can adopt the best mode to provide constant power during the day and night. It keeps supporting the load during different weather conditions.

The four most common working modes can be summarized in these figures.



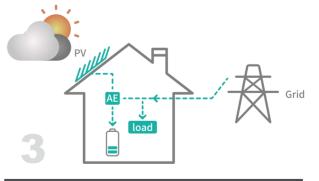
#### **SUNNY DAY, LOW BATTERY**

PV will charge the batteries, excessive energy would be fed into the grid



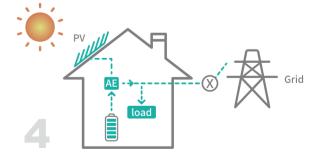
#### **CLOUDY, HIGH BATTERY**

During cloudy days, iKran ePowercube will provide power backup



#### **CLOUDY, LOW BATTERY**

Grid will power the house, while iKran ePowercube will recharge the backup



#### **GRID FAILURE / OUTAGE**

During power outage, iKran ePowercube will instantly provide power within 10ms



# EV Charging

EVs are often charged at night when solar PV systems have stopped producing for the day. With ikran ePowercube, you can charge your EV with self-produced clean energy.

iKran ePowercube storage not only reduces your carbon footprint but also helps to alleviate stress on the grid from EVs and overall reliance on fossil fuels.



# It starts with **Quality**

We don't compromise on quality. Each and every unit is equipped with the best components from the world's leading component suppliers.















# **60** + Patents

We have more than 60 patents authorized by the Intellectual Property Administrations.







**Safety First** Intelligent BMS IP65



**Highly Efficient** Best return of Investment



**Corrosion Free** Automobile grade paint Double layered coating

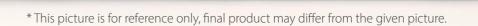


Remote Access Cloud platform to monitor and control



Slim Design Modular, space saving Just like home appliances

ePøwercube



ENGILE

## Hybrid Inverter 6-10kW



## Datasheet

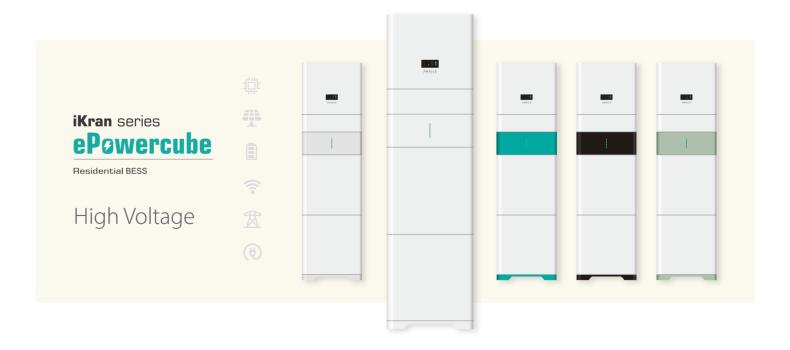
Aybrid inverter 6-10k	111		Datasne
PARAMETER	AE6K-H-T	AE8K-H-T	AE10K-H-T
PV PARAMETERS			
Max. PV array power (Wp)	9000	12000	15000
Max. voltage (V)	1000	1000	1000
MPPT Voltage Range (V)	180~900	180~900	180~900
Rated Voltage (V)	600	600	600
nitial feed in voltage (V)	120	120	120
Max. current (A)	13/ 13	13/ 13	13/ 13
full load MPPT voltage range (V)	310Vdc~850Vdc	380Vdc~850Vdc	470Vdc~850Vdc
Max. short circuit current (A)	18 / 18	18 / 18	18 / 18
No. of MPPT	2	2	2
Strings per MPPT	1/1	1/1	1/1
BATTERY PARAMETERS	1/1	1/1	1/1
		LFP (Lithium-ion)	
Battery type			
Battery voltage range (V)		120~875	
Rated charge/discharge current (A)		30/30	40000
Rated charge/discharge power (W)	6000	8000	10000
AC OUTPUT [GRID SIDE]			
Rated AC power (W)	6000	8000	10000
Max. AC power (VA)	6600	8800	11000
Rated AC current (A) @230Vac	8.7	11.6	15
Лах. AC current (A)	10	13.5	15.9
Rated output voltage (V)	2	20/380V, 230/400V, 3L/N/I	PE
Rated frequence/range (Hz)		50/60 ±5	
Power factor		0.8 lead ~ 0.8 lag	
ГНDi (%)		<3%	
AC OUTPUT [OFF GRID SIDE]			
Rated Output Power (W)	6000	8000	10000
Max. AC current (A)	10	13.5	15.9
Rated Output Voltage (V)	2	20/380V, 230/400V, 3L/N/I	PE
Rated frequence/range (Hz)		50/60 ±5	
ΓHDv (%)		<3%	
Peak output apparent power (VA)	6600 (60 s)	8800 (60 s)	16500 (60 s)
EFFICIENCY	0000 (00 3)	0000 (00 3)	10300 (00 3)
Max. efficiency (%)	97.90%	97.90%	98.00%
European efficiency (%)	97.20%	97.20%	97.60%
MPPT efficiency (%)	99.50%	99.50%	99.50%
Max. Battery charge/discharge efficiency (%)	96.60%	96.60%	97.60%
GENERAL PARAMETERS	90.0070	90.0070	97.0070
Communication Method	\\/i_	Fi (USB connector + WiFi s	tick)
Operating temperature (°C)	VVI-	-40~60	tick)
Cooling		Natural cooling	
P rating		IP65	
nstallation Methods		Wall mounting	
Dimension (W×H×D) (mm)		550×640×210	
Net weight (kg)		30	
Varranty (years)		5	
Safety Certification Standards		IEC62109-1, IEC62109-2	
EMC Certification Standards	IEC61000-6-1,	IEC61000-6-2, IEC61000-6-	3, IEC61000-6-4
Certificate		TUV	
Grid-Connection Standards		VDE-AR-N 4105	

## Battery Pack 5kWh



Datasheet

PARAMETER	AES4.9-H
BATTERY PACK	
Operating Voltage Range	136V~868V
Energy Capacity (Single Pack)	4.9kWh
Max. Capacity (5 Packs)	24.6kWh
Battery Material	LFP (48S1P)
Charging Capacity Max. Sustained/Transient	32A/32A (25°C)
Discharge Capacity Max. Sustained/Transient	32A/32A (25°C)
Charge / Discharge Efficiency	> 95%
Cycle Life (Cycle Conditions)	> 6000* Cycles
Battery SOC Operating range	0%-100%
Charging Temperature	0°C~53°C
Discharging Temperature	-18°C~54°C
Communication	CAN, RS485
GENERAL DATA	
IP Rating	IP65
Cooling Method	Natural Cooling
Battery Dimension (W×H×D)	550×550×222 mm
Battery Weight	65 kg
BCU Dimension (W×H×D)	550×260×222 mm
BCU Weight	10 kg
Warranty	10 Years
Certificate	TUV, CE, UN3480
Testing Standards	IEC/EN62477-1, EN61000-6, IEC62619
	IEC60730-H, IEC63056



OVERALL DIMENSIONS	5 KWH	10 KWH
BESS Dimension (W×H×D)	580×1500×222 mm	580×2050×222 mm
BESS Weight	112 kg	177 kg

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# LOW Voltage I-Phase BESS





Active detection to prevent failures and danger



Low noise <40dB(A)



IP65 waterproof and dustproof



Low Voltage



Switching time <20ms



Slim Design Hang on the wall or stand alone



Long warranty 10 Years



Remote Control





## **ePøwercube**



#### Hybrid Inverter 4.6-6kW Datasheet AE5K-L-S AE6K-L-S **PARAMETER** AE4K6-L-S INPUT (PV) Max.PV Input Power 6kW 7kW 7kW Max. PV Input Voltage 550V Start Voltage 125V MPPT Voltage Range 125V~500V Norminal DC operating voltage 360V 14A / 14A Max.PV Input Current Number of MPP Trackers / String per MPPT 2/1 OUTPUT (AC) Max. Output Current 20A 21.7A 26A 4.6kVA 5kVA 6kVA **Rated Power** Rated Voltage 230V, L+N+PE Operating Voltage Range 176V~270V Frequency 50Hz/60Hz Power Factor 0.99ind...0.99cap THDi <2% **OUTPUT (EPS) Rated Power** 4.6kVA 5kVA 6kVA Rated Voltage 230Vac 20A 26A **Rated Current** 21.7A Rated Frequency 50Hz/60Hz Automatic Switch Time <20ms **Overload Capability** 110%,60s /120%,30s /150%, 10s THDU <2% **EFFICIENCY** Max Efficiency 97.6% 97% **European Efficiency** MPPT Efficiency 99.9%

Battery Charge / Discharge Efficiency	95% / 95%
COMMUNICATION	
Display	LCD
Communication	standard: RS485/ CAN/DRM
	optional: WIFI/LAN
GENERAL DATA	
Certificates	TUV, VDE, SAA
Dimensions (W×H×D)	550×650×200 mm
Weight	30kg
Operation Temperature	-25°C~ 60°C
Cooling Method	Natural Cooling
Protection Degree	IP65
Noise Emission	<40dB

Max. Operating Altitude **Relative Humidity** 

**Standby Power Comsuption** 

Topology

<2000m

4~100% (non-condensing) Transformerless

<3W

## Battery Pack 5kWh



Datasheet

PARAMETER	AES5.3-L / AES5.3L1
BATTERY PACK	
Nominal Voltage (V)	51.2
Operating voltage range (V)	40~58
Energy Capacity (kWh)	5.3
Usable Capacity (kWh)	5.1
Rated capacity (Ah)	104
Standard power (kW)	2.5
Max. charge/discharge power (kW)	5.0/5.0
Recommend charge/discharge current (A)	50/50
Max. charge/discharge current (A)	100/100
Cycle life (80% DoD)	>6000* cycles
Expected life time/Warranty (Year)	10
Operating temperature range (°C)	-28~55
Storage temperature (°C)	0~35
Humidity (%)	0~95 (no condensation
Altitude (m)	2000
Ingress protection	IP65
Communication	RS485/CAN
Main LED indicator	LED
System switch (on/off)	BMS button
Safety certificate	IEC/EN 62619, IEC 63056
EMC	IEC61000-6-1, 1EC61000-6-3
UN number	UN3480
GENERAL DATA	
Dimensions (W×H×D) (mm)	550x550x195
Weight (kg)	54
Cooling	Natural
Standard warranty (Year)	10

<sup>\*</sup> At 25°C, under specific test conditions



OVERALL DIMENSIONS	5 KWH	10 KWH
BESS Dimension (W×H×D)	550×1250×198 mm	550×1800×198 mm
BESS Weight	96 kg	155 kg

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## Solar

# Package





Hybrid Inverter



**LFP Batteries** 



**PV** Panels



A complete Solar Package to enter the green future. Selection between High and Low Voltage BESS, Dual Glass, and Building Integerated Solar Panels.

### Solar Panel 530~555 W



### Datasheet

#### SUPERIOR WARRANTY **SPECIFICATIONS** Mono • 12-year product warranty Weight 27.8kg 0.55% Annual Degradation Over 25 years • 25-year linear power output warranty 1134±2mm 2278±2mm×30±1mm 4mm² (IEC) , 12 AWG(UL) Cable Cross Section Size No. of cells 144(6×24) Junction Box IP68, 3 diodes MC4-EVO2/ QC 4.10-351 Portrait: 200mm(+)/300mm(-); Landscape: 1300mm(+)/1300mm(-) Cable Length (Including Connector) ■ New linear power warranty ■ Standard module linear power warranty 36pcs/Pallet Packaging Configuration 720pcs/40HQ Container

ELECTRICAL PARAMETERS AT	STC					
ТҮРЕ	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_Pm p)				-0.350%/°C		
STC			Irradiance 1000M	//m² cell temperati	ro 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						OPERATING CONDITIONS		
TYPE	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR	JAM72S30 -555/MR	Maximum System Voltage	1000V/1500V DC
Rated Max Power(Pmax) [W]	401	405	408	412	416	420	Operating Temperature	-40°C~+85
Open Circuit Voltage(Voc) [V]	46.18	46.31	46.43	46.55	46.68	46.85	Maximum Series Fuse Rating	25A
Max Power Voltage(Vmp) [V]	38.57	38.78	38.99	39.20	39.43	39.66	Maximum Static Load,Front* Maximum Static Load,Back*	5400Pa(112lb/ft²) 2400Pa(50lb/ft²)
Short Circuit Current(Isc) [A]	11.01	11.05	11.09	11.13	11.17	11.21	NOCT	45±2°C
Max Power Current(Imp) [A]	10.39	10.43	10.47	10.51	10.55	10.59	Safety Class	Class Ⅱ
NOCT	Irradiance 8	300W/m², am	bient temper	ature 20°C,w	ind speed 1m	n/s, AM1.5G	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

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







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## Datasheet

Cai DL33			Datasiice
Model	ePowerblock AEBS-50/100	ePowerblock AEBS-100/200	ePowerblock AEBS-200/400
DC BATTERY PARAMETERS			
Battery type	Li-ion/230Ah	Li-ion /280Ah	Li-ion /280Ah
Battery voltage range		300-850V	
Battery energy capacity	100kWh	200kWh	400kWh
AC SIDE PARAMETERS			
AC rated power	50kVA	100kVA	200kVA
Maximum AC power	60kVA	120kVA	240kVA
Rated voltage/range		380±20% V	
Wires mode		3-Phase, 4 Wires	
Rated grid frequency/range		50/60±5 Hz	
Ac current distortion rate		≤3%	
OC component		≤0.5%lpn	
Power factor		>0.99	
Power factor control		-1 ~ 1	
mbalance compensation		100%	
Harmonic compensation		2~25 times	
Virtual synchronization Function		Standard	
SYSTEM PARAMETER			
Maximum system efficiency	≥93%	≥93%	≥93%
Charge discharge ratio		0.5C	
Discharge depth		95%DOD	
Number of cycles		6000	
Charge discharge switching time		<100ms	
Communication interface		LAN/CAN/485	
Degree of protection		IP54	
Cooling mode		Intelligent air cooling	
Norking temperature		-25~55°C	
Relative humidity		5~95%RH,No condens	ation
Noise		<75dB	
BESS Dimension (W*H*D)	1000*2200*1050 mm	1400*2200*1050 mm	1600*2200*1200 mm
Fire fighting system		Heptafluoropropane	
Weight	1500kg	2100kg	2800kg

## **Gega Power**

**Commercial and Industrial Battery Energy Storage System** 

## **ePowerstation**



Intelligent security



**Grid friendly** 



**Sophisticated Management** 





## Grid Scale BESS



## Datasheet

dia scale bess 4	Date	asricci
Model	ePowerstation 500 kWh	
DC BATTERY PARAMETERS		
Battery type	Lithium Iron Phosphate/230Ah	
Battery Voltage Range	300-850V	
Battery Storage Capacity	500kWh	
GRID SIDE OUTPUT (AC)		
AC rated power	250kVA	
AC maximum power	300kVA	
Rated voltage range	380±20% V	
Wire system	3-Phase, 4 Wires	
Rated grid frequency	50/60±5 Hz	
AC current variability	≤3%	
DC component	≤0.5%lpn	
Power factor	>0.99	
Power factor control	-1~1	
Imbalance compensation	100%	
Harmonic compensation	2-25 Times	
Virtual sync function	Standardized	
SYSTEM DATA		
Maximum system efficiency	≥91%	
Charge and discharge rate	0.5C	
Battery depth of discharge	95%DOD	
Cycle life	10000	
Charge and discharge switching time	<100ms	
Communication interface	LAN/CAN/485	
Protection rating	IP54	
Transformer	Optional	
Cooling method	Smart air cooling	
Operating temperature	-25~55°C	
Relative humidity	5~95%RH,No condensation	
Noise emission	<75dB	
Dimensions (W*D*H)	3000 *2500 *2200 mm	
Fire protection system	Heptafluoropropane	
Weight	4500kg	



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Clean And Smart, Enlight The World











