

# iKran series **A**+LV

- A+LV-3.0/5.38kWh
- A+LV-4.0/5.38kWh
- A+LV-3.68/5.38kWh
- A+LV-5L/10.76kWh



This picture is just for reference.

Active detection to prevent failures and danger



Low noise <25db



Switching time <10ms



Slim Design Hang on the wall or stand alone



IP65 waterproof and dustproof



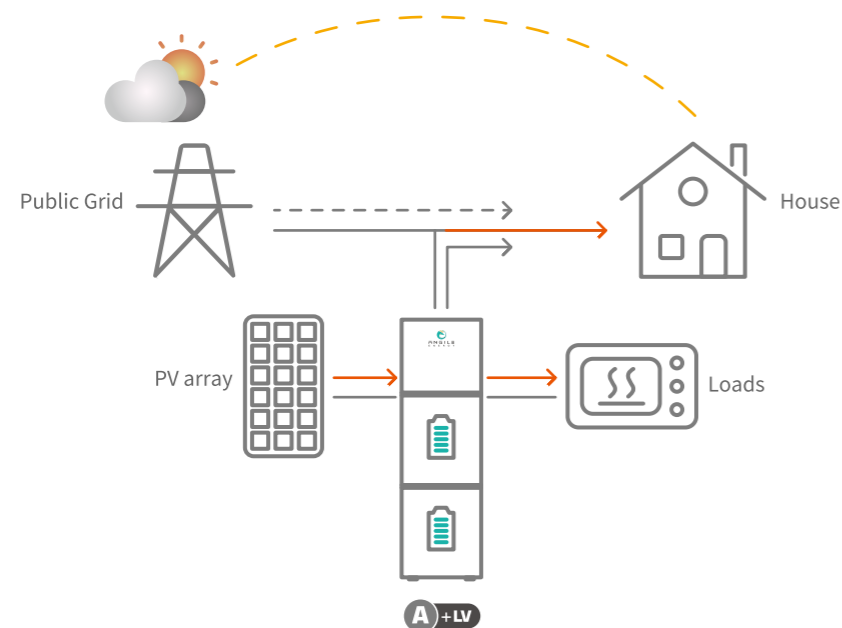
Low voltage



Long warranty >30MWh



Remote control



## iKran AIO **A**+LV Specifications

MODEL	A+LV-3.0/5.38kWh	A+LV-3.68/5.38kWh	A+LV-4.0/5.38kWh	A+LV-5L/10.76kWh
<b>PCS UNIT</b>				
<b>PV INPUT(DC)</b>				
Max.PV array power(Wp)	6000	6680	7000	7500
Max.DC voltage(V)			550	
Nominal DC operating Voltage(V)			380	
Max.input current(input A/input B)			12+12	
Max.short circuit current(input A/input B)			17+17	
MPPT voltage range(V)			100 to 530 / 380	
Start operating voltage(V)			100 / 125	
No. of MPP trackers/Strings per MPPT tracker			2/1+1	
<b>AC OUTPUT ( Grid output/input)</b>				
Nominal AC power(VA)	3000	3680	4000	5000 *1
Max.apparent AC power(VA)	3000	3680	4000	5000 *2
Nominal grid voltage(AC voltage range)(V)			180 to 280 / 230	
Nominal grid frequency/range(Hz)			50/60Hz	
Max.AC current(A)	13.6	16	18.2	22.7 *3
Power factor			0.8 leading to 0.8 lagging	
THDi(%)			<3	
Max.grid input parent power(VA)			6000	
Max.grid input current (A)			a.c.27.3	
<b>OUTPUT DC(BATTERY)</b>				
Battery type			Lithium Iron Phosphate	
Battery voltage range(V)			40~60	
Recommended battery voltage(V)			60	
Max.continuous charge/discharge current(A)	90			120
Communication interfaces			RS485/CAN	
<b>EPS OUTPUT(WITH BATTERY)</b>				
EPS Max.continuous apparent power(VA)			3000	
Peak output apparent power (VA)			4500 ,10s	
EPS rated voltage(V),Frequency(Hz)			230,50/60	
EPS Max.continuous current(A)			a.c.13.7A	
EPS peak apparent power(Rated)%,Duration(s)			200%, 10s	
Switching time(ms)			<10ms	
THDv,linear load(%)			<3	
<b>EFFICIENCY</b>				
MPPT efficiency(%)			99.90	
Euro efficiency(%)			96.50	
Max. efficiency(%)			97.60	
Battery charge/discharge efficiency(%)			94.7	
<b>POWER CONSUMPTION</b>				
Standby consumption(Night)(W)			10	
<b>STANDARD</b>				
Safety	EN50549-1, CEI 0-21, IEC61727, IEC62116, IEC60068, IEC61683, ABNT NBR 16149, ABNT NBR 16150, AS4777.2, VDE 4105, XP C15-712-3, RD1699, UNE 206006 IN, UNE 206007-1 IN ,IEC62109-1/-2, IEC62040-1,IEC61000-6-1,IEC61000-6-3,IEC61000-3-11, IEC61000-3-12, IEC61000-4-16,IEC61000-4-18,IEC61000-4-29			
EMC				
<b>ENVIRONMENT LIMIT</b>				
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)	<21			
<b>BATTERY UNIT</b>				
Nominal Voltage(V)	51.2			
Operating voltage range(V)	45~58			
Total Capacity(kWh)	5.38			
Usable Capacity(kWh)	5.12			
Rated capacity(Ah)	105			
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(90% DOD)	>6000cycles			
Expected life time/Warranty(Year)	10			
Operating temperature range(°C)	-10~50			
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			
Master LED indicator	LED			
System switch(on/off)	BMS button			
Safety certificate	IEC/EN 62619,IEC 63056,IEC 62477-1,IEC62040-1			
EMC	IEC61000-6-1,IEC61000-6-3,			
UN number	3480			
Dimensions(W*D*H)(mm)	550*550*220			
Weight(kg)	58			
<b>GENERAL DATA</b>				
Dimensions(W*D*H)(mm)	550*240*1250	550*240*1250	550*240*1250	550*240*1800
Weight(kg)	85	85	85	145
Cooling	Natural			
Standard warranty(Years)	10			

\*1 Nominal AC power set to 4600 W for VDE-AR-4105 grid code

\*2 Apparent power set to 4600 W for VDE-AR-4105 grid code

\*3 Max. output current limited to 21.7 A when set to the AS/NZS 4777.2 grid code. Version: July, 2022