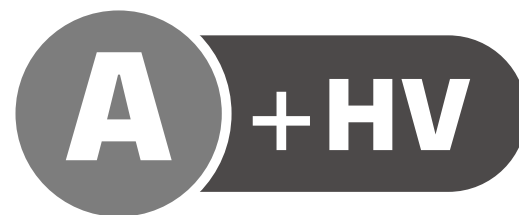


iKran series ePowercube

Residential



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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		
Safety 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				