

AKAI

ENERGY



Single Phase Hybrid Inverter



10 Year
Warranty



High
Efficiency



Back up
Capability



Online
Monitoring

AFTER SALES SUPPORT 1300 429 169

PROTECT YOUR WARRANTY

This unit must be installed by a registered, licensed installer as required by Government regulations.

Technical Specifications

1300 429 169
After Sales Support

PV Input				
Model Number	AKE-4.6KW-HBI	AKE-5KW-HBI	AKE-5.5KW-HBI	AKE-6KW-HBI
Ppv Max (W)	6900	7500	8300	9000
Vmax PV (Vdc) (absolute Max.)		550		
Min. Operating Voltage (Vdc)		100		
Start-up Voltage (Vdc)		100		
MPPT voltage range (Vdc)		80-500		
Vdc range @ full power (Vdc)	130 - 500	150-500	160-500	170-500
Isc PV (absolute Max.) (A)		26 x 2		
Max. PV input current (A)		18.5 x 2		
Number MPP trackers		2		
Number input strings		1/1		
Battery (charge/discharge)				
Battery type		Li-ion/Lead-acid		
Battery Normal Voltage (Range) (Vdc)		51.2V (40-60V)		
Max charge/discharge Current (A)		80		
Max charge/discharge Power (W)	4600	4800	4800	4800
AC Grid (input and output)				
Normal AC Voltage (V)		L/N/PE, 230 Vac		
Frequency (Hz)		50		
Normal AC Current (A)	20	21.8	24	26.1
Max. cont. input/output current (A)	22	23	26	28
Rated Power (W)	4600	5000	5500	6000
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. Power (W)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor		1.0 (- 0.8 - + 0.8 adjustable)		
Max. efficiency (%)		97.6		
AC Load Output (Stand Alone)				
Normal Voltage (V)		L/N/PE, 230 Vac		
Frequency (Hz)		50		
Nominal Current (A)	20	21.8	24	26.1
Max. cont. current (A)	22	23	26	28
Max. cont. Power (W)	4600	5000	5500	6000
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor		1.0		
Other				
Ingress protection (IP)		IP65		
Protective class		Class I		
Temperature (°C)		-25°C to +60°C (Derating 45°C)		
Inverter Isolation		Non-isolated (PV-AC-BAT)		
Overvoltage category		OVC III (AC Main), OVC II (PV)		
Maximum altitude (m)		2000		
Weight (kg)		17		
Dimensions (L x W x D) (mm)		513 x 370 x 192		
Firmware		V06		