

Apollo All-in-One Hybrid ESS

Apollo-4.6/5KLP1G01-MX



Specification

Model	Apollo-4K6LP1G01-M1	Apollo-4K6LP1G01-M2	Apollo-5KLP1G01-M1	Apollo-5KLP1G01-M2
System Specification				
Nominal Output Power	4600VA/4600W		5000VA/5000W	
AC Output Frequency and Voltage	50/60Hz;L/N/PE 220/230V a.c			
Grid Type	Single Phase			
Energy Range (kWh)	5.12	10.24	5.12	10.24
Max. Charging/Discharging Current (A)	100			
Battery Operating Voltage (V)	44.8-57.6			
Battery Type	LiFePO4			
IP Rating of enclosure	IP21			
System Certification	VDE-AR-N 4105; G99/1; EN50549-1; CEI 0-21; AS 4777.2			
Warranty Period[1]	10 years			
Inverter Technical Specification				
Max. PV Input Power(W)	6000		6500	
Max. PV Input Current(A)			15/15	
Rated PV Input Voltage (Vdc)			90-550	
Start Up DC Voltage (Vdc)			130	
MPPT Voltage Range(Vdc)			100-500	
Max. PV Short-circuit Current (A)			18/18	
No. of MPPT Tracker			2/1	
Peak Power (off grid)			2 time of rated power, 0.2s	
Power Factor			0.8 leading to 0.8 lagging	
DC injection current (mA)			THD < 3% (Linear load < 2%)	
Display			LCD + LED	
Operating Temperature Range (°C)			-20°C ~ 55°C, > 45°C Derating	
Relative Humidity			15% ~ 85% (No Condensing)	
Dimension(WxDxH,mm)			600x450x640	
Weight Apprx.(kg)			60	
Communication with BMS			CAN/RS485	
Grid Regulation			VDE-AR-N 4105; G99/1; CE:EN50549-1, NRS 097-2-1; CEI 0-21:AS 4777.2	
Safety Regulation			IEC 62109-1/2, IEC 62040-1	
EMC			EN61000-6-1, EN61000-6-3	
Max. efficiency			97.6%	
Euro efficiency			97.0%	
MPPT efficiency			99.9%	
Battery Technical Specification				
Nominal Voltage (V)			51.2	
Battery Module Energy (kWh)	5.12	10.24	5.12	10.24
Scalability	Max. 8pcs. Max. capacity of 40.96kWh			
Battery Module Dimension (WxDxHmm)	600*450*180	600*450*360	600*450*180	600*450*360
Battery Base Dimension (WxDxHmm)	590*440*120			
Battery Module Weight Apprx.(kg)	46	92	46	92
Charging Temperature Range	0-55°C			
Discharging Temperature Range	-20-55°C			
Cycle Life	≥6,000 Cycles (Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.)			
Battery Module Certification	UN38.3 CE			
AC Output Voltage	230V a.c			
AC Output Frequency	50/60Hz			
AC Output Rated Current	20A a.c		21.7A a.c	
Max. AC Output Current			40A a.c	
AC Output Rated Active Power	4600W*		5000W*	
AC Output Rated Apparent Power	4600VA*		5000VA*	
AC Output Power Factor	0.8 Leading To 0.8 Lagging			

[1] Conditions apply, refer to FelicityESS Warranty Letter.

Product Features



Flexible Storage Capacity



Programmable supply priority for battery or grid



100% output in off-grid mode



All in one design



Smart settable three stages MPPT charging



Real-time Remote Control via APP and website