



AIO ESS 8.0/10.0/12.0kW

6 6 MPPTs, with max.20kW PV input.

Plug and play.

Touchable LCD, and advanced cloud platform.

12kW AC output, with max. 1.2 times overload ability (10s).

Scalable with max. 3pcs battery bank.

Smart loads management, via intelligent gateway.

Model	POL-AIO-AC-13.5-8.0		POL-AIO-AC-13.5-10.0		POL-AIO-AC-13.5-12.0	
Input Data(PV)						
Max. DC Input power	13,000W		16,500W		20,000W	
Max. DC Input Power Of Single MPP Tracker			4,500W			
Start-up Voltage			60V			
Max. PV Open-circuit Voltage			600V			
MPPT Voltage Range			80V-550V			
Rated MPPT Voltage			360V			
Max. Input Current			6*17A			
Max. PV Short-circuit Current			6*23A			
MPP Tracker/No. Of Strings Per MPP Tracker			6/1			
Battery						
Battery Type			Li-ion			
Battery Voltage Range			260-346V			
Nominal Voltage			307V			
Max. Charging/Discharging Current	25A /41A		25A/41A		25A /41A	
Max. Battery Charging/Discharging Power	6,000W/8,600W		6,000W/10,600W		6,000W/12,600W	
Battery Communication			CAN			
Battery Capacity			13.5kWh			
Output Data (AC, On/Off Grid)						
Rated AC Output Power	8,000W		10,000W		12,000W	
Max. Apparent Power	8,000VA		10,000VA		12,000VA	
Nominal Off-grid Power			12,000VA			
Peak Power (10s, Off-grid)			14,400VA			
Rated/Max. Output Current	34.8A		43.5A		52A	
Nominal Grid Voltage/Range			230 V.a.c(180 to 270V.a.c)			
Nominal Frequency/Range			50 /60Hz; ±5Hz			
Power Factor(@Full Load)			>0.99			
Power Factor Range			0.8lagging-0.8leading			
THDI (@Rated Power)			<3%			
AC Output Type			Single phase; L+N+PE			
General Data						
Battery Max. Charging/Discharging Efficiency			96.50%			
Max. PV Efficiency	97.10%		97.30%		97.50%	
Euro Efficiency	96.60%		96.80%		97%	
PV MPPT Efficiency			99.90%			
Ingress Protection			IP65			
Protection Class			Class I			
Overvoltage Category			PV: II, Battery: II, AC: III			
Inverter Topology			PV: Transformer-less; Battery: Transformer-less			
Cooling			Smart Fan Cooling			
Noise Emission (Typical)			≤50dB			
Operating Temperature Range			-20~+50 C			
Relative Humidity			0~100%, Non-condensing			
Altitude			4000m(Derating Above 2000 m)			
Dimensions (WxHxD)			600x1095x280(mm)			
Weight			231kg			
Self-consumption			<15W			
Max. Parallel Units			3			
Display			LCD &&APP			
Interface			RS485/WIFI/4G inside			
Warranty			5 years			
Certificates			IEC62619, IEC62040, IEC62477, IEC62109-1, IEC62109-2, AS/NZS4777.2:2020+A1, EN IEC 61000-6-3, EN IEC 61000-6-1			

Remarks*1: Test condition at 25 C ±2 C, 0.5C/0.5C,90%DOD