

AUTONOMOUS ELECTRIC POWER SUPPLY



ON-GRID

**COLORS
AVAILABLE**



**WITH GAS GROUP
EXTRA**

OFF-GRID



**Optimized energy self-consumption
for on-grid and off-grid electrical installations**



FEATURES

✔ Energy monitoring

The energy management system enables users to control energy flows in real time. Users can view the amount of energy produced and how it is used. All data is logged for analysis.

✔ Energy control

Our software enables users to control the energy produced to avoid or limit injections into the grid. The goal is to boost the rate of self-consumption, controlling photovoltaic production by deciding on new uses or storing excess energy if the system includes batteries.

✔ Managing differently priced periods

With our software, you can configure switch on times : this feature suggests the best time for energy-consuming appliances to be used in order to reduce the costs of using energy from the grid.

✔ Energy use analysis

The solution also includes MyHome&me, an application which enables users to examine their energy use, identify the most energy-consuming devices, create an archive of energy usage and track its development, and monitor their building's energy use in real time.

✔ Energy storage

Optimising self-consumption requires fluctuating solar energy production to be co-ordinated with consumption. This problem can be dealt effectively by managing energy storage and being able to defer the simultaneous activation of loads.

✔ Power limitations

The option of using energy stored in the battery provides a surplus of energy which is not withdrawn from the grid. AEA PLCs include peak shaving and power limiting functions.

	AEA 3000 Slim	AEA 3000+	AEA 5000	AEA 10000
Product features				
Dimensions	1430 x 600 x 300 mm	1430 x 600 x 520 mm	1430 x 600 x 520 mm	1800 x 650 x 610 mm
Weight (max. with battery)	90 kg	200 kg	240 kg	400 kg
Protection index	IP32	IP32	IP32	IP32
Altitude max.	Up to 1000 m	Up to 1000 m	Up to 1000 m	Up to 1000 m
Temperature threshold	0 to +40 °C	0 to +40 °C	-10 to +55 °C	-10 to +55 °C
Moisture threshold	95% without condensation	95% without condensation	95% without condensation	95% without condensation
Battery technology	Lithium-Ion	Lithium-Ion	Lithium-Ion	Lithium-Ion
Photovoltaic input max.	4.5 kWc	4.5 kWc	2 trackers of 5 kWc	2 trackers of 7.5 kWc
MPPT range	250-450 VDC	250-450 VDC	250-850 VDC	350-850 VDC
Continuous nominal power	3 kW	3 kW	5 kW	10 kW
Voltage	230 VAC + N	230 VAC + N	230 VAC + N	3 x 400 VAC + N
Efficiency	> 93 %	> 93 %	> 93 %	> 93 %
Storage capacity	2.4 to 4.8 kWh	2.4 to 9.6 kWh	2.4 to 9.6 kWh	7.2 to 14.4 kWh
Norms	VDE 126-1-1	VDE 126-1-1	VDE 126-1-1	VDE 126-1-1
Security	Overload and surge protection			
Manufacturing	France	France	France	France

Sirea, a company specialized in the field of industrial automation and electrical energy