

## Product information

# Nilar ENERGY+ product series

- Nilar Hydride<sup>®</sup> battery technology



## BENEFITS IN BRIEF

- Long term power
- Superior safety benefits
- Environmentally friendly
- Optimal for time shifting applications
- Steady power distribution favourable for low power applications
- Suitable for longer cycle duration applications

## Patented Nilar design

As our dedicated team acquired experience through the installed systems, there was a perceptible need in the market for increased energy. Time was devoted to exploring design modifications to achieve increased capacity. Ultimately, it was discovered that the battery capacity could be increased without any changes to the structural shape of the proven battery design. The Energy+ battery encapsulates all the advancements of the Energy battery. The electrode volume contains an increase of active material, leading to a 12 Ah capacity. When more energy is essential, the Energy+ battery serves as the premier source. It is the optimal choice for time shifting your energy for low power applications.

# Nilar ENERGY+ product series

ELECTRICAL CHARACTERISTICS BATTERY PACK	96V	108V	120V	144V	Unit
Capacity	12	12	12	12	Ah
Cycles	2000	2000	2000	2000	Cycles
Gravimetric energy density	46,7	47,3	47,8	48,6	Wh/kg
Volumetric energy density	146,52	149,28	151,56	155,16	Wh/l (liter)
PROTECTION CLASS					
Battery pack incl. IMU	IP21	IP21	IP21	IP21	IP
OPERATING CONDITIONS					
Ambient temperature range	-10 to +40	-10 to +40	-10 to +40	-10 to +40	°C
Service life	20+	20+	20+	20+	years

BATTERY PACK	Art. no.	Product description	No. of battery modules	Pack voltage (V)	System voltage (V)	Rated Energy (kWh)	Max charge rate (C-rate)	Max discharge rate (C-rate)	Max continuous charge/discharge rate (C-rate)	Measurements DxHxW (mm)	Weight (kg)
EPLUS-96V-12Ah	200030EP	Battery pack 96V + IMU Energy+	8	96	96	1,15	0,8	0,8	0,4	248x306x127	25
EPLUS-108V-12Ah	200031EP	Battery pack 108V + IMU Energy+	9	108	108	1,3	0,8	0,8	0,4	273x306x127	27
EPLUS-120V-12Ah	200032EP	Battery pack 120V + IMU Energy+	10	120	120	1,44	0,8	0,8	0,4	293x306x127	30
EPLUS-144V-12Ah	200033EP	Battery pack 144V + IMU Energy+	12	144	144	1,73	0,8	0,8	0,4	337x306x127	36

HOME BOX	Art. no.	Product description	No. of battery packs	Pack voltage (V)	System voltage (V)	Rated Energy (kWh)	Max charge rate (kW)	Max discharge rate (kW)	Max continuous charge/discharge rate (kW)	Measurements DxHxW (mm)	Weight (kg)
EPLUS-576V-6,91kWh-F incl. ESO	210017EP	Home Box 6,91 kWh, F-ESO	4	144	576	6,91	3,46	3,46	1,73	305x945x900	213
EPLUS-288V-6,91kWh-K	210016EP	Home Box 6,91 kWh, K	4	144	288	6,91	3,46	3,46	1,73	305x945x900	213

CABINET	Art. no.	Product description	No. of battery packs	Pack voltage (V)	System voltage (V)	Rated Energy (kWh)	Max charge rate (kW)	Max discharge rate (kW)	Max continuous charge/discharge rate (kW)	Measurements DxHxW (mm)	Weight (kg)
EPLUS-576V-13,82kWh	200035EP	Cabinet 2 string - Energy+	8	144	576	13,82	6,91	6,91	3,46	655x1033x701	370
EPLUS-576V-20,74kWh	200036EP	Cabinet 3 string - Energy+	12	144	576	20,74	10,37	10,37	5,19	655x1388x701	549
EPLUS-576V-27,65kWh	200037EP	Cabinet 4 string - Energy+	16	144	576	27,65	13,83	13,83	6,91	655x1743x701	728
EPLUS-576V-34,56kWh	200038EP	Cabinet 5 string - Energy+	20	144	576	34,56	17,28	17,28	8,64	655x2098x701	907

RACK	Art. no.	Product description	No. of battery packs	Pack voltage (V)	System voltage (V)	Rated Energy (kWh)	Max charge rate (kW)	Max discharge rate (kW)	Max continuous charge/discharge rate (kW)	Measurements DxHxW (mm)	Weight (kg)
EPLUS-576V-69,12kWh-M	200039EP	Rack-M- Energy+	40	144	576	69,12	34,56	34,56	17,28	615x1996x1509	1794
EPLUS-576V-69,12kWh-S	200040EP	Rack-S- Energy+	40	144	576	69,12	34,56	34,56	17,28	615x1996x1509	1794

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