

Product information

Nilar ENERGY product series

- Nilar Hydride[®] battery technology



BENEFITS IN BRIEF

- Long term power
- Superior safety benefits
- Environmentally friendly
- Optimal for peak power applications
- Expedient energy availability for medium power
- Suitable for shorter cycle duration applications

Patented Nilar design

Through the deployment of our previous battery product, our dedicated research and design staff gained significant insights into improvements and innovations towards a better battery. The plastic material used in the laser-welded module was replaced with a more resilient material. Operational guidance was fine-tuned for outstanding efficiency and the battery was upgraded for better processing of the dynamic data and communication with external systems.

The result is this newly unveiled Nilar Energy battery. The 10 Ah Energy battery has retained the volumetric size and quality performance of its predecessor, operating expertly at a continuous 1C charge and discharge rate. It is the exceptional choice for peak power reduction and provides expedient energy for any medium power application.

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ELECTRICAL CHARACTERISTICS BATTERY PACK	96V	108V	120V	144V	Unit
Capacity	10	10	10	10	Ah
Cycles	2000	2000	2000	2000	Cycles
Gravimetric energy density	40,7	41,2	41,7	42,4	Wh/kg
Volumetric energy density	122,1	124,4	126,3	129,3	Wh/L (liter)

PROTECTION CLASS	96V	108V	120V	144V	Unit
Battery pack incl. IMU	IP21	IP21	IP21	IP21	IP

OPERATING CONDITIONS	96V	108V	120V	144V	Unit
Ambient temperature range	-10 to +40	-10 to +40	-10 to +40	-10 to +40	°C
Service life	20+	20+	20+	20+	years

BATTERY STRINGS	Art. no.	Product description	No. of battery packs	Pack voltage (V)	String 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)
ES-192-1,92kWh	200069E	String, 2pcs of 96V packs, no BMS	2	96	192	1,92	2	3	1	Single Battery 248x306x127
ES-288-2,88kWh	200070E	String, 3pcs of 96V packs, no BMS	3	96	288	2,88	2	3	1	Single Battery 248x306x127
ES-384-3,84kWh	200071E	String, 4pcs of 96V packs, no BMS	4	96	384	3,84	2	3	1	Single Battery 248x306x127
ES-216-2,16kWh	200072E	String, 2pcs of 108V packs, no BMS	2	108	216	2,16	2	3	1	Single Battery 273x306x127
ES-324-3,24kWh	200073E	String, 3pcs of 108V packs, no BMS	3	108	324	3,24	2	3	1	Single Battery 273x306x127
ES-432-4,32kWh	200074E	String, 4pcs of 108V packs, no BMS	4	108	432	4,32	2	3	1	Single Battery 273x306x127
ES-240-2,4kWh	200075E	String, 2pcs of 120V packs, no BMS	2	120	240	2,40	2	3	1	Single Battery 293x306x127
ES-360-3,6kWh	200076E	String, 3pcs of 120V packs, no BMS	3	120	360	3,60	2	3	1	Single Battery 293x306x127
ES-480-4,8kWh	200077E	String, 4pcs of 120V packs, no BMS	4	120	480	4,80	2	3	1	Single Battery 293x306x127
ES-288-2,88kWh	200078E	String, 2pcs of 144V packs, no BMS	2	144	288	2,88	2	3	1	Single Battery 337x306x127
ES-432-4,32kWh	200079E	String, 3pcs of 144V packs, no BMS	3	144	432	4,32	2	3	1	Single Battery 337x306x127
ES-576-5,76kWh	200080E	String, 4pcs of 144V packs, no BMS	4	144	576	5,76	2	3	1	Single Battery 337x306x127

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)
E-576V-5,76kWh-F incl. ESO	210017E	Home Box 5,76 kWh, F-ESO	4	144	576	5,76	5,76	11,52	3,46	305x945x900	207
E-288V-5,76kWh-K	210016E	Home Box 5,76 kWh, K	4	144	288	5,76	5,76	11,52	3,46	305x945x900	207

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)
E-576V-11,52kWh	200035E	Cabinet 2 string - Energy	8	144	576	11,52	11,52	23,04	6,91	655x1033x701	357
E-576V-17,28kWh	200036E	Cabinet 3 string - Energy	12	144	576	17,28	17,28	34,56	10,37	655x1388x701	530
E-576V-23,04kWh	200037E	Cabinet 4 string - Energy	16	144	576	23,04	23,04	46,08	13,82	655x1743x701	703
E-576V-28,80kWh	200038E	Cabinet 5 string - Energy	20	144	576	28,80	28,80	57,6	17,28	655x2098x701	876

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)
E-576V-57,60kWh-M	200039E	Rack-M - Energy	40	144	576	57,60	57,60	115,20	34,56	615x1996x1509	1731
E-576V-57,60kWh-S	200040E	Rack-S - Energy	40	144	576	57,60	57,60	115,20	34,56	615x1996x1509	1731

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