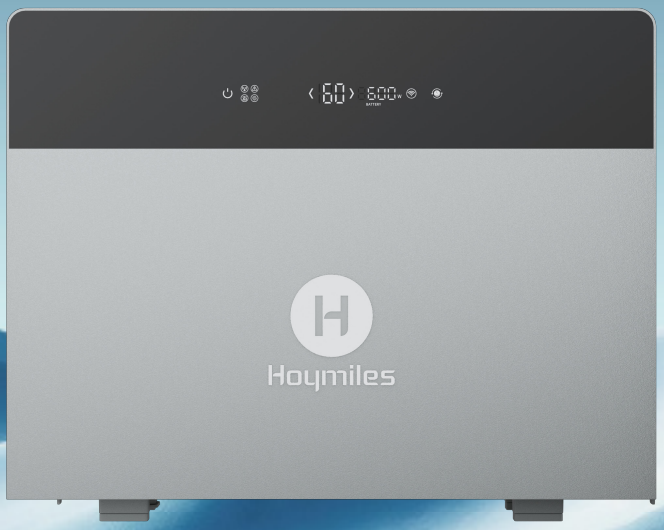
HiBattery 4020 AC

HB-4020-AC
HB-4020-S



Note: The fan top cover is an optional accessory and should be ordered separately.

Features

01 **Enhanced Performance & Higher Returns**
- *4 kWh built-in battery, expandable up to 16 kWh*
- *Built-in 2500 W inverter*
- *Maximum DC/AC efficiency 96.5%*

02 **Easy Installation**
- *Plug-and-play connection, home system setup in 1 minute*
- *Flexible stackable battery expansion*

03 **Open Compatibility**
- *Compatible with Hoymiles and third-party (Shelly, Everhome) meters*
- *Open MQTT protocol, compatible with third-party EMS*
- *Compatible with all existing residential solar installations*

04 **Ultimate Safety**
- *314 Ah LiFePO4 battery cells with > 8000 charge-discharge cycles*
- *Hoymiles BMS integrates 48 built-in protection functions*
- *Intelligent cell balancing to extend battery life*
- *Intelligent self-heating for low-temperature environments*
- *Built-in aerosol fire suppression, pressure relief valve and DC terminal over-temperature protection*
- *IP66 waterproof & dustproof*
- *Pack-level DC/DC balancing*

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Technical Specifications - HiBattery

Product Name	HiBattery 4020 AC
Model	HB-4020-AC/ACM
AC On-Grid Port	
Rated output power (W)	800
Rated output current (A)	3.48
Maximum output power (W)	2500
Maximum output current (A)	10.87
Maximum input power (W)	2500
Maximum input current (A)	10.87
Rated voltage/range (V)	230 / 180 to 270
Rated frequency/range (Hz)	50 / 45 to 55
Adjustable power factor (@nominal power)	>0.99 default; 0.8 leading ... 0.8 lagging
Total harmonic distortion (@nominal power)	<3%
AC Off-Grid Port	
Maximum output power (W)	2500
Rated voltage (V)	230
Rated frequency (Hz)	50
Maximum output current (A)	10.87
Maximum input power (W)	2500
Maximum input current (A)	10.87
Power factor	>0.99 default; 0.8 leading ... 0.8 lagging
Battery	
Battery type	LFP
Cycle life	≥8000 @70% SOH
Rated capacity (Ah)	314
Rated energy (Wh)	4020
Rated voltage (V)	12.8
Charging/discharging temperature (°C)	-20 to 55
Maximum charging/discharging power (W)	2000
Rated charging/discharging power (W)	2000
DC/DC voltage (V)	48
General	
Dimensions (W × H × D [mm])	520 × 384 × 199
Weight (kg)	42
Operating temperature (°C)*	-20 to 55
Storage temperature (°C)	-30 to 60
Humidity	5 to 100%
Altitude (m)	4000
Noise (dB)	<20
Cooling	Natural convection; Smart fan optional**
Warranty	10 years
Ingress protection	IP66
Inverter topology	Isolated
Display Interaction	
Display screen	LED
Communication	Bluetooth, 2.4 GHz Wi-Fi
Monitoring	S-Miles Home

* Below 0 °C, the heating film will automatically activate to bring the device within the charging temperature range.
** The optional Cooling Accessories Kit enables smart cooling and includes a fan top cover.

Technical Specifications - Battery Pack

Model	HB-4020-S
Battery	
Battery type	LFP
Cycle life	≥8000 @70% SOH
Rated capacity (Ah)	314
Rated energy (Wh)	4020
Rated voltage (V)	12.8
Voltage range (V)	11.2 to 14.6
Rated charging/discharging power (W)	2000
Maximum charging/discharging power (W)	2000
General	
Dimensions (W × H × D [mm])	520 × 275 × 199
Weight (kg)	35
Operating temperature (°C)*	-20 to 55
Humidity	5 to 100%
Altitude (m)	4000
Cooling	Natural convection
Warranty	10 years
Ingress protection	IP66

* Below 0 °C, the heating film will automatically activate to bring the device within the charging temperature range.