Technical Specs



Inverter module	HiOne-20T-G3
Recommended max. PV power (W)	40000
Start-up voltage (V)	170
MPPT voltage range (V)	150-950
MPPT number/Max. input strings number	4/4
Max. input current (A)	20/20/20/20
Max. on-grid output apparent power (VA)	22000
Max. off-grid output apparent power (VA)*	30000 (10s)
Max. efficiency	98.5%
Dimensions (W × H × D [mm])	620*360*255
Weight (kg)	31
Operating temperature (°C)	-30 to +65 (>45, derating)
Protection degree	IP66

Battery module	HiOne-8B-G3
Cell capacity (Ah)	314
Total energy (kWh)	8
Max. charging/discharging power (kW)	4
Peak discharge power (kW)	6 (10 s)
Dimensions (W × H × D [mm])	620 × 360 × 255 (single pack)
Weight (kg)	67
Charging/discharging temperature range (°C)	-20 to +55

V2X	HiOne-25VD-G3
Max. charging/discharging power (kW)	25
Operating voltage range to inverter (V)	350-950
Operating voltage range to vehicle (V)	250-950
Max. operating current (A)	50
Charging interface	CCS2
Charging/discharging temperature (°C)	-20 to +55 (>45, derating)
Protection degree	IP66
Cooling	Intelligent air cooling
Altitude (m)	≤4000
Charging cable length (m)	5
Authentication	RFID card/App/no authentication
Application	Bi-directional V2X operation
User interface	LED indicator, App, RFID card
Remote function	OTA, remote diagnostics

*Applicable only when the inverter is connected to Hoymiles gateway.



Gateway		HiBox-63T-G3
Grid		
	Grid form	3L/N/PE
	Max. AC current (A)	63
INV		
	Max. connection number	2
	Max. AC current (A)	33.3
Smart Port (GEN/PV Inverter/Smart Load)		
	Max. AC current (A)	63
Backup		
	Max. AC current (A)	63
General		
	Dimensions (W*H*D [mm])	535 × 490 × 170
	Weight (kg)	18
	Operating Temperature (°C)	-30 to +55
	Protection degree	IP54
	Cooling	Natural convection
	Altitude (m)	≤4000

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About Hoymiles

Founded in 2012, Hoymiles has been dedicated to advancing clean energy technology. As a global leader in smart energy solutions, we provide efficient and reliable PV and energy storage systems for diverse applications — from DIY and residential to C&I and large-scale projects.

With over 1,900 employees, more than 35% in R&D, we drive continuous innovation that powers customers in over 190 countries.

Guided by the mission Open Energy for All, Hoymiles drives solar adoption through continuous innovation and global strategy, building a greener and more sustainable future.

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Hoymiles

HOYMILES HIONE ALL-IN-ONE BESS

SLIMMER. STRONGER. FASTER.



SUPERIOR IN EVERY WAY.

All you need. All in HiOne.

Slimmer

HiOne unites inverter, battery and EMS into one seamless system-with a gateway that powers your entire home during outages, and V2X DC EV charger for bi-directional charging.



Perform beyond limits

Stronger



98.5%
Max. efficiency

The highest efficiency in the industry—powering greater energy generation for your system.

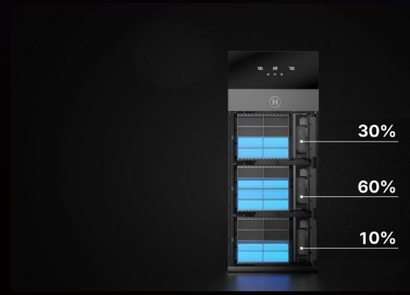


4 MPPTs **20A** For each MPPT

Support multiple roof orientations and simplifying system design.

Upgrade with ease

Faster



Mix batteries freely

Faulty batteries can be replaced or new ones added with automatic SOC balancing.

Flexible capacity options

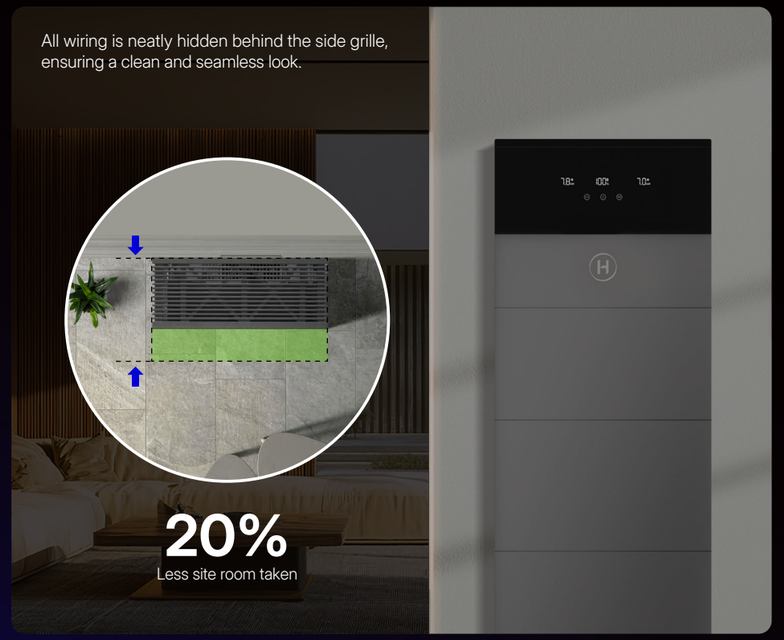
8 packs
Per inverter

64 kWh
Max. parallel capacity



Designed to Belong

All wiring is neatly hidden behind the side grille, ensuring a clean and seamless look.



20%
Less site room taken

Power Without Interruption

Inductive loads such as air conditioners and washing machines continue operating smoothly.

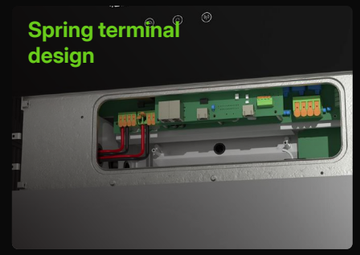


0ms
Backup switching

Install at Top Speed

Requiring no complex tools, with plug-and-play setup for faster installation and reduced on-site labor.

Spring terminal design



Cable-free stackable module



Pluggable data transfer stick



Plug-in smart meter

