

Technical Specs



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

V2X module	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
Dimensions (W × H × D [mm])	620*360*255
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

Battery module	HiOne-8B-G3
Cell capacity (Ah)	314
Total energy (kWh)	8
Charging/Discharging rate (C)	0.5
Peak discharge power (kW)	1.5 times, 10s
Dimensions (W × H × D [mm])	620*360*255
Weight (kg)	70
Charging/discharging temperature (°C)	-20 to +55 (>45, derating)



Gateway	HiBox-63T-G3
AC Grid	
Grid form	3L/N/PE
Max. input/output current (A)	63
AC INV	
Max. input number	2
Max. input current (A)	32*2
Smart Load/GEN/AC INV	
Max. input current (A)	63
Backup Load	
Max. input current (A)	63
General	
Dimensions (W*H*D [mm])	535 × 490 × 162
Weight (kg)	175
Charging / Discharging Temperature	-30 to +55
Protection Level	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
ALL-IN-ONE BESS

MADE TO OUTPERFORM,
DESIGN TO SIMPLIFY.



ONE HUB FOR ALL THINGS ENERGY.

All you need. All in HiOne. ■

HiOne unites inverter, V2X EV charger, battery, and EMS into one seamless system — with a gateway that powers your entire home during outages.



Power Without Interruption ■

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



Built to last ■

With premium cells and robust protection, HiOne ensures reliable, safe operation in any climate—designed to power you for years to come.

8,000+
Life Cycles

12.5-year
Warranty

-30°C ~ 65°C
Self-heating. Winter-proof

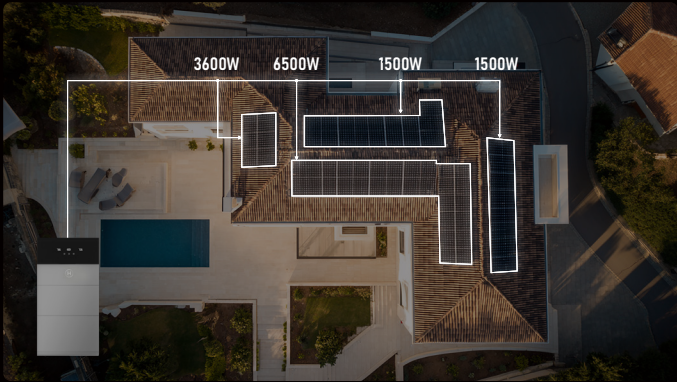
IP66
Waterproof & Dustproof

Perform beyond limits ■



98.5%
Max. efficiency

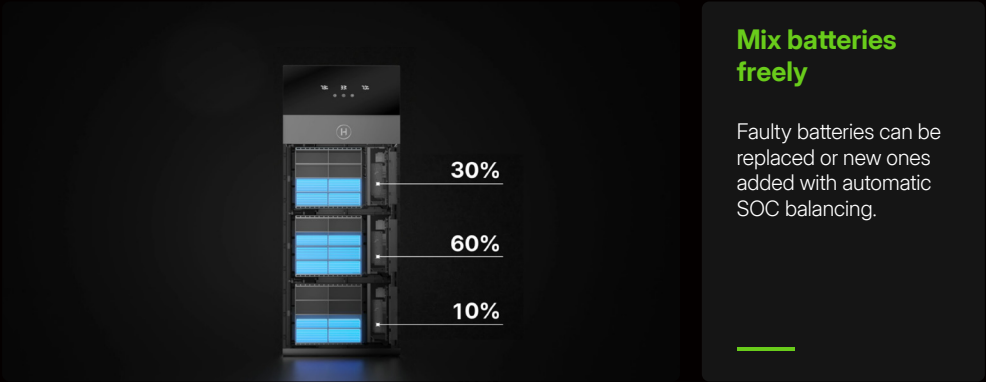
The highest efficiency in the industry—powering greater energy generation for your system.



4 **20A**
MPPTs For each MPPT

Support multiple roof orientations and simplifying system design.

Upgrade with ease ■



Install at Top Speed ■

