

Hoymiles 11.5kW Hybrid (IP66) + Deye 10.2kWh (Self-Heating): All-Weather Power



Self-Heating Technology

- RW Battery Equipped with built-in self-heating technology for reliable performance in cold climates.



Reliable & Safe

- Built-in Intelligent EMS integrated with self-consumption, economic and backup modes for multi-scenario application
- Wide temperature range: -20°C to 55°C
- IP66 for outdoor application
- Integrated arc fault protection and rapid shutdown function
- Long battery lifespan (6000 cycles)
- High-energy density
- Compatible with generators for reliable backup power



Smart Monitoring

- Remote monitoring through S-Miles Cloud
- WiFi/4G communication
- iOS & Android app for system control



Flexible

- Support both DC-coupled and AC-coupled system
- Flat design, Wall-mounted with Wall Bracket
- Floor Stand with removable base
- Ultralight for easy installation and space-saving



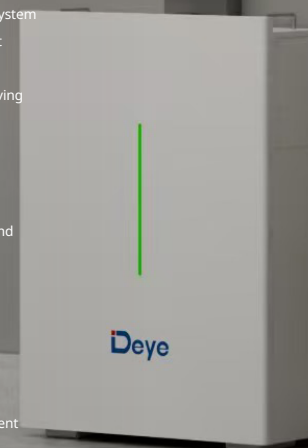
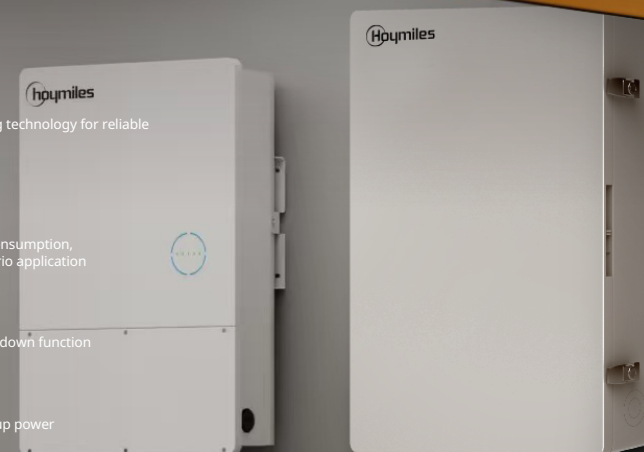
UL Certified & Local Support

- UL 9540 certified for safety and compliance
- 10-year warranty for long-term peace of mind
- Responsive local technical support
- Local warehouse for quick delivery



High Performance

- Max. Efficiency 97.6%, CEC Efficiency 97.0%
- Double MPPT tracker, up to 32 A MPPT current
- DC/AC ratio up to 150%
- Maximum support 1C charge and 1.20C discharge



Hoymiles HYS-3.8LV-11.5LV-USG1 Inverter

Model	HYS-3.8LV-USG1	HYS-4.8LV-USG1	HYS-6.0LV-USG1	HYS-7.6LV-USG1	HYS-9.6LV-USG1	HYS-11.5LV-USG1
Battery						
Battery type	Li-ion/Lead-acid					
Battery voltage range (V)	40-60					
Max. charge/discharge current (A)	80/80	100/100	100/100	160/160	200/200	200/200
Max. charge/discharge power (W)	3840/3840	4800/4800	4800/4800	7600/7600	9600/9600	9600/9600
Charging strategy for Li-ion battery	Self-adaption to BMS					
Charging curve	3 Stages/Equalization					
External temperature sensor	Optional					
Communication	CAN					
PV Input						
Recommended max. PV power (W)	5760	7200	9000	11520	14400	14400
Max. input voltage (V)	550					
Rated voltage (V)	380					
Start-up voltage (V)	150					
MPPT voltage range (V)	125-500					
Max. input current (A)	16/16	16/16	16/16	32/32	32/32	32/32
Max. short circuit current (A)	20/20	20/20	20/20	40/40	40/40	40/40
MPPT number/Max. input strings number	2/2	2/2	2/2	2/4	2/4	2/4
AC Input and Output (On-grid)						
Rated output power (W)	3840	4800	6000	7680	9600	11520
Max. output apparent power (VA)	3840	4800	6000	7680	9600	11520
Max. input power (W)	7680	9600	9600	15360	19200	19200
Rated AC output voltage/Range (V)	240, 211-264/208, 183-228 ^①					
Rated grid frequency (Hz)	60					
Max. output current (A)	16	20	25	32	40	48
Max. input current (A)	32	40	40	64	80	80
Power factor	>0.99 (0.8 leading ... 0.8 lagging)					
THDi (@rated output)	<3%					
AC Output (Off-grid)						
Rated output power (W)	3840	4800	4800	7680	9600	9600
Max. output apparent power (VA) ⁽²⁾	7680, 10s	9600, 10s	9600, 10s	15360, 10s	19200, 10s	19200, 10s
Back-up switch time (ms)	<40					
Rated output voltage (V)	120/240 (split phase), 120/208 ⁽¹⁾					
Rated output frequency (Hz)	60					
Max. continuous output current (A)	16	20	20	32	40	40
THDv (@linear load)	<3%					
Efficiency						
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Max. efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
CEC efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
Max. battery discharge to AC efficiency	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
Protection						
Anti-islanding protection	Integrated					
PV arc fault detection	Integrated					
PV string input reverse polarity protection	Integrated					
Compliant MLRSD products	Integrated					
Insulation resistor detection	Integrated					
Residual current monitoring unit	Integrated					
AC over current protection	Integrated					
AC short current protection	Integrated					
AC overvoltage and undervoltage protection	Integrated					
Surge protection	DC Type II/AC Type III					
General						
Dimensions (W × H × D)	19.8 × 24.2 × 7.95 inch (502 × 615 × 202 mm)			19.8 × 29.1 × 7.95 inch (502 × 740 × 202 mm)		
Weight	68.3 lbs (31 kg)			90.4 lbs (41 kg)		
Mounting	Wall mounting					
Operating temperature	-13°F to +149°F (>113°F, derating)/-25°C to +65°C (>45°C, derating)					
Relative humidity	0-95%, no condensing					
Cooling	Natural convection					
Topology (Solar/Battery)	Transformerless/High-frequency isolation					
Altitude	≤6562 ft (2000 m)					
Protection degree	Type 4X					
Noise (dB)	<40					
User interface	LED, App					
Digital input/output	1 × DI, 2 × DO					
Max. parallel	10					
Communication	RS485, optional: Wi-Fi/Ethernet/4G ⁽³⁾					
Warranty	10 Years					
Certifications and Standards						
Grid connection standard	IEEE 1547-2018, IEEE 1547I-2020, SRD2.0					
Safety/EMC standard	UL 1741, CSA C22.2 No.1071, UL 1741 CRD, UL 1741 SB, FCC Part 15 Class B					
AFCI	UL 1699B					
Software approval	UL 1998					

(1) For 240 V, the grid profile is US.JEEE1547; for 208 V, the grid profile is IEEE1547.208V.

(2) Can be achieved only if PV and battery power are sufficient.

(3) The DTS-Ethernet and DTS-4G solutions will be coming soon.

Model	HMID-200-USG1
Connection to Utility Grid and Household Distribution	
Nominal AC voltage (V)	120/240 (split phase)
Nominal grid frequency (Hz)	60
Max. continuous current rating (A)	160
Max. grid port overcurrent rating (A) ⁽¹⁾	200
Max. backup load port overcurrent protection device (A)	200
Max. short circuit current rating (kA)	10
Overvoltage category	Category IV
Connection to Inverter	
Max. continuous current rating for solar (A)	64
Max. overcurrent protection device rating for solar (A)	80
Max. continuous current rating for storage (A)	48
Max. overcurrent protection device rating for storage (A) ⁽²⁾	60
Connection to Smart Load	
Max. continuous current rating (A)	64
Max. overcurrent protection device rating (A)	80
Connection to Generator	
Max. continuous current rating (A)	100
Max. overcurrent protection device rating (A)	125
General	
Dimensions (W × H × D)	25.63 × 29.4 × 5.55 inch (651 × 747 × 141 mm)
Weight	46.3 lb/21 kg
Mounting	Wall mounting
Operation temperature	-4 to +122°F (-20 to +50°C)
Relative humidity	0-95%, no condensing
Altitude	≤9843 ft (3000 m)
Cooling	Natural convection
Protection degree	Type 3R

[1] Circuit breaker is required for installation at the service entrance.

[2] There are three branches for storage connection.

Deye RW-F10.2-B

Model	RW-F10.2-B
Main Parameter	
Battery Chemistry	LiFePO
Built-in Circuit Breaker	125A 4P, 60Vdc
Capacity (Ah)	200
Scalability	Max. 32 pcs pack (Max.327kWh) in parallel
Nominal Voltage (V)	51.2
Operating Voltage (V)	43.2 ~ 57.6
Nominal Energy (kWh)	10.24
Usable Energy (kWh) ^[1]	9.2
Charge / Discharge Current (A) ^[2]	Recommend Continuous Max. Continuous Peak (2mins, 25°C)
Other Parameter	
Recommend Depth of Discharge	90%
Dimension (W × H × D)	23.6" × 32.7" × 7.9" (600 × 830 × 200mm, Without hanging board)
Weight Approximate	235.9 lbs. (107kg)
Master LED Indicator	LED (SOC : 20% ~ SOC100% and working state)
IP Rating of Enclosure	NEMA 3R (IP65)
Operating Temperature	Charge : 33°F ~ 131°F (1 ~ 55°C) / Discharge : -4°F ~ 131°F (-20°C ~ 55°C)
Recommend Operating Temperature	59°F ~ 95°F (15°C ~ 35°C)
Storage Temperature	32°F ~ 95°F (0 ~ 35°C)
External ambient temperature range	-4°F ~ 131°F (-20°C ~ 55°C, with heating film)
Humidity	5% ~ 95%
Altitude	≤Max. 9,843 ft (3,000m)
Cycle Life	≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)
Installation	Wall-Mounted, Floor-Mounted
Communication Port	CAN2.0, RS485
Warranty Period ^[3]	10 years
Energy Throughput	32MWh (@25°C, 0.5C / 0.5C, 70%EOL)
Certification	UN38.3, FCC, UL1973, UL9540A, UL9540

[1] DC Usable Energy, test conditions : 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Deye Warranty Letter.