



Single-phase Hybrid Inverter Datasheet

HYS-8.0LV-EUG2
HYS-10.0LV-EUG2
HYS-12.0LV-EUG2

Description

The HYS-LV-EUG2 Series is a new generation single-phase hybrid inverter with excellent reliability, including power classes ranging from 8.0 kW to 12.0 kW.

The intelligent EMS function supports self-consumption mode, economical mode, and backup mode for multi-scenario applications. Monitoring management through Hoymiles Cloud allows users to remotely diagnose and track system's performance over time, maximizing the total solar power production and battery utilization.

Features

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|----|---|----|---|
| 01 | Intelligent export limitation | 05 | DC/AC ratio up to 130% |
| 02 | Double MPPT tracker, up to 32 A MPPT current | 06 | Ultralight for easy installation and space-saving |
| 03 | Compatible with multiple batteries, providing users with more choices | 07 | Built-in dry contact flexibly set to earth fault alarm, load control or generator control |
| 04 | Seamless backup power for whole home or critical loads | 08 | Remote monitoring through S-Miles Cloud |

Technical Specifications

Model	HYS-8.0LV-EUG2	HYS-10.0LV-EUG2	HYS-12.0LV-EUG2
Battery			
Battery type		Li-ion/Lead-acid(1)	
Battery voltage range (V)		40-60	
Max. charge/discharge current (A)	160/160	200/200	240/240
Max. charge/discharge power (W)	8000/8000	10000/10000	12000/12000
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)	10400	13000	15600
Max. input voltage (V)		550	
Rated voltage (V)		360	
Start-up voltage (V)		150	
MPPT voltage range (V)		125-500	
Max. input current (A)		32/32	32/32
Max. short circuit current (A)	32/32	40/40	40/40
MPPT number/Max. input strings number	40/40	2/4	2/4
AC Input and Output (On-grid)			
Rated output power (W)			
Max. output apparent power (VA)	8000	10000	12000
Max. input power (W)	8800	11000	13200
Grid form	23000	23000	23000
Rated AC output voltage/Range (V)		L/N/PE	
Rated grid frequency (Hz)		220/230, 154-276	
Max. output current (A)		50/60	
Max. input current (A)	38.3	47.8	57.4
Power factor	100	100	100
THDi (@rated output)		>0.99 (0.8 leading ... 0.8 lagging)	
AC Output (Off-grid)			
Rated output power (W)			
Max. output apparent power (VA)	8000	10000	12000
Back-up switch time (ms)	16000, 10s	20000, 10s	23000, 10s
Grid form		<10(2)	
Rated output voltage (V)		L/N/PE	
Rated output frequency (Hz)		220/230	
Max. continuous output current (A)		50/60	
THDv (@linear load)	34.8	43.5	52.2
Efficiency			
MPPT efficiency			
Max. efficiency			
EU efficiency	99.9%	99.9%	99.9%
Max. battery discharge to AC efficiency	97.6%	97.6%	97.6%
Protection			
Anti-islanding protection	95.0%	95.0%	95.0%
PV string input reverse polarity protection			
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		Integrated	
General			
Dimensions (W × H × D [mm])		DC Type II/AC Type III	
Weight (kg)			
Mounting		502 × 740 × 202	
Operating temperature (°C)		41	
Relative humidity		Wall mounting	
Cooling		-25 to +65 (>45, derating)	
Topology (Solar/Battery)		0-95%, no condensing	
Altitude (m)		Smart cooling	
Protection degree		Transformerless/High-frequency isolation	
Noise (dB)		≤2000	
User interface		IP65	
Digital input/output		<40	
Max. parallel		LED & APP	
Communication		1 × DI, 2 × DO	
Certifications and Standards			
Grid connection standard		10(3)	
Safety/EMC standard		RS485, optional: Wi-Fi/WLAN	
		EN 50549, NRS 097-2-1	
		IEC 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	

(1) Lead-acid batteries will be supported soon.

(2) This will be supported soon.

(3) On-grid and off-grid parallel solutions will be coming soon.



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