



LOW VOLTAGE HYBRID INVERTER (SPLIT-PHASE)

AH-(5-10)R2LV-G1



High Efficiency

- » Wide MPPT voltage range for increased power generation
- » Max. string current 20A, suitable for high-current/double-sided components



Smart

- » Supports remote diagnostics and software updates
- » Easy to set up intelligent working modes
- » Compatible with diesel generators, can control the generator automatically start and stop



User-Friendly

- » <4ms UPS-level switching
- » Smart load dual output interface protection
- » 6 editable charge/discharge times



Safe & Reliable

- » Supports I-V curve scanning, accurately identifying string anomalies
- » Intelligent AFCI reduces fire risk (Optional)



Economical & Cost-Saving

- » Supports grid-connected and off-grid AC coupled access

AUX GROUP

Established in 1986, AUX Group is an enterprise which covers 5 industries. It ranked China's top 500 enterprises for consecutive years, 40000+ employees keep AUX fast development for recent years.

40

Years

History

\$12

Billion

Revenue in 2025

5

Business Industries

\$11.2

Billion

Assets

500

China's Top

40000+

Employees

AUXSOL

Advance Unlimited X-tra Green Power

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	AH-5R2LV-G1	AH-6R2LV-G1	AH-7.5R2LV-G1	AH-8R2LV-G1	AH-10R2LV-G1
PV INPUT					
Max. input power	10kW	12kW	16kW	16kW	20kW
Max. input voltage			550V		
Rated voltage			330V		
Start-up voltage			90V		
MPPT voltage range			90-435V		
Max. input current	18A/18A	21A/36A		36A/36A	
Max. short circuit current	22.5A/22.5A	22.5A/45A		45A/45A	
MPPT number			2		
Max. input strings number	2	3		4	
INPUT BATTERY					
Battery type			Li-ion/Lead-acid		
Battery voltage Range			40-60V		
Communication			CAN		
Charging Strategy for Li-Ion Battery			Self-adaption to BMS		
Max. charge / discharge current	112A	135A	190A	190A	210A
OUTPUT AC (Grid Side)					
Rated output power	5kW	6kW	7.5kW	8kW	10kW
Max. apparent output power	5.5kVA	6.6kVA	7.5kVA	8.8kVA	11kVA
Max. rated current	22.7A	27.3A	34.1A	36.4A	45.5A
Max. output current	25A	30A	34.1A	40A	50A
Rated grid voltage			2L/N/PE, 127 V / 220 V		
Rated grid frequency			60 Hz		
Power Factor			>0.99 (0.8 leading - 0.8 lagging)		
THDi			<3%		
INPUT AC (Grid Side)					
Max. input power	7.7kW	8.8kW	11kW	11kW	11kW
Max. apparent input power	7.7kVA	8.8kVA	11kVA	11kVA	11kVA
Max. input current	35A	40A	50A	50A	50A
Rated input voltage			2L/N/PE, 127 V / 220 V		
Rated input frequency			60 Hz (±5Hz)		
OUTPUT AC (Back-up)					
Rated output power	5kW	6kW	7.5kW	8kW	10kW
Max. output current	22.7A	27.3A	34.1A	36.4A	45.5A
Max. continuous AC Passthrough			50A		
Max. output power			2 times of rated power, 10 s		
Back-up switch time			<4ms		
Rated output voltage			2L/N/PE, 127 V / 220 V		
Rated frequency			60 Hz		
THDv			< 3%		
EFFICIENCY					
MPPT efficiency			99.8%		
Max. efficiency			97.6%		
EU efficiency			96.5%		
BAT charged/discharged Max. efficiency			95.0%		
PROTECTION					
Integrated DC switch			Yes		
Anti-islanding protection			Yes		
Short circuit protection			Yes		
Insulation impedance detection			Yes		
Ground Fault Monitoring			Yes		
Residual leakage current detection			Yes		
Battery reverse protection			Yes		
DC/AC Surge protection			Type II		
DC arc-fault circuit protection			Optional		
Parallel			Yes		
GENERAL DATA					
Dimensions (W*H*D)			354*560*237 mm		
Weight			≤28.8 kg		
Self consumption(night) (Rated voltage)			< 20 W		
Operating temperature range			-25...+60 C		
Cooling concept			Smart Fan Cooling		
Max. operation altitude			4000m		
Relative humidity			0-100%		
Ingress protection			IP66		
Topology Structure			Transformerless		
Grid connection stadard			Inmetro140		
Type of DC terminal			MC4 connector		
Battery connection type			Terminal		
Type of AC terminal (Back-up)			Terminal		
Type of AC terminal (Grid side)			Terminal		
DISPLAY&COMMUNICATION					
Display			LCD+Bluetooth+APP		
Communication interface			Standard: RS485/CAN/WiFi/LAN/Bluetooth, Optional 4G		

Note: The specification and key features described in this datasheet may deviate slightly and are not guaranteed. AUXSOL reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the latest version of the datasheet, any commercial contracts that may be signed will be based on the most recent version at the moment of signing the contract.