

OWN THE ENERGY FLOW.

Designed to intelligently manage energy between solar generation, storage, and backup.

VMIW-8.6K48L1

HYBRID INVERTER



VMIW-SERIES 48V/ 8600W

FEATURES



High-Efficiency Power Generation

- Dual MPPT
- Max. input current 18A + 18A
- Max. input power 6600W + 6600W



Safe and Reliable

- IP65 design
- 6-year warranty



Intelligent Operation and Maintenance

- Intelligent dual AC output
- Programmable intelligent load
- Support remote OTA



User-Friendly

- 4.3-inch touch screen
- Flexible communication function
- Maximum 12 units in parallel

ITEMS		VMIW-8.6K48L1
PV (DC Input)	Recommended max. PV input power	13200W (6600W + 6600W)
	Max. input voltage (Voc)	500Vdc
	MPPT operating voltage range	85-450Vdc
	Number of MPPT	2
	Max. input current per MPPT	18A + 18A
	Max. short-circuit current per MPPT	27A + 27A
Grid (AC Input)	Max input power	11500W
	Max input current	50A
	Rated grid voltage	230Vac
	Rated grid frequency	50 / 60Hz
	Acceptable voltage range	170-280Vac (for UPS), 90-280Vac (APL)
Battery Parameters (Bidirectional)	Battery type	Lead-acid or Lithium-ion
	Battery voltage range	40-60Vdc
	Rated Battery Voltage	48Vdc
	Max. charge/discharge current	180A / 180A
	BMS communication mode	RS485; CAN
Back-up Output (AC output)	Rated output power	8600W / 8600VA (Twin output)
	Rated output current	37.4A
	Rated output voltage / Frequency	220/230/240V (L,N,PE), 50Hz / 60Hz
	Parallel capacity	Up to 12 units, 103.2kW, single phase / Up to 12 units, 103.2kW, three phase
	Surge power	2 times of rated power, 5s
	THDv (@ linear load)	< 3%
	Switching time	10ms (typical) UPS mode; 20ms (typical) APL mode
Efficiency	Peak efficiency	97.6%
	Max. MPPT efficiency	>99%
Protection	Inner protection	AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Component Monitoring, DC Switch
	Surge protection	TYPE III (DC), TYPE III (AC)
	IP rating	IP65
General Parameters	Operating temperature range	-40 to +60°C, >45°C Derating
	Relative humidity range	0-100%
	Max. operating altitude	3000m
	Standby self-consumption	<10W
	Installation type	Wall-mounted
	Cooling mode	Intelligent Air Cooling
	Communication	RS485; CAN; Wi-Fi; Dry port
	Display	4.3-Inch Colorful Touch Screen LCD
Mechanical Specifications	Inverter dimensions (L*W*H)	379*451*135MM
	Net weight	14.6kg
	Carton dimensions (L*W*H)	481*564*223MM
	Gross weight	17.2kg
	Warranty Period	6 years