63±1Hz

Line mode: Circuit Breaker (70A)

Battery mode: Electronic Circuits

10ms typical (UPS);

20ms typical (Appliances)

>95% (Rated R load, battery full charged)

5550 Jurupa St, Ontario, CA 91761

6500V PVINPUT HYBRID OFF-GRID

INVERTER



FEATURES

- Pure sine wave inverter
- Configurable color with the built-in RGB LED bar
- Built-in Wi-Fi for mobile monitoring (APP is required)
- Supports USB On-the-Go function
- Built-in anti-dusk kit
- Detachable LCD control module with multiple communication ports for BMS (RS485, CAN-BUS, RS232)
- Configurable input voltage ranges for home appliances and personal computers via LCD control panel
- Configurable AC/PV output usage timer and prioritization
- Configurable AC/Solar charger priority via LCD control panel
- Configurable battery charging current based on applications via LCD control panel
- Compatible to utility mains or generator power
- Auto restart while AC is recovering
- Overload / Over temperature / short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

MODEL	RS-H6548V5
Input Voltage Waveform	Sinusoidal (utility or generator)
Nominal Input Voltage	120VAC
Low Loss Voltage	90VAC±7V (UPS); 80VAC±7V (Appliances)
Low Loss Return Voltage	100VAC±7V (UPS); 90VAC±7V (Appliances)
High Loss Voltage	140VAC±7V
High Loss Return Voltage	135VAC±7V
Max AC Input Voltage	150VAC
Max AC Input Current	60A
Nominal Input Frequency	50Hz/60Hz (Auto detection)
Low Loss Frequency	40±1Hz
Low Loss Return Frequency	42±1Hz
High Loss Frequency	65±1Hz

Table 1: Line Mode Specifications

Power Limitation

Transfer Time

Efficiency (Line Mode)

High Loss Return Frequency

Output Short Circuit Protection

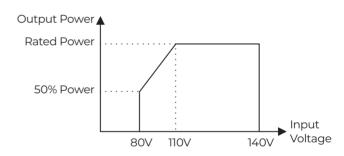


Table 2: Inverter Mode Specifications MODEL RS-H6548V5 Rated Output Power 6500W Output Voltage Waveform Pure Sine Wave **Output Voltage Regulation** 120VAC±5% **Output Frequency** 60Hz or 50Hz Peak Efficiency **Overload Protection** 100ms@≥205% load;5s@≥150% load; 10s@110%~150% load Surge Capacity 2* rated power for 5 seconds Nominal DC Input Voltage 48VDC Cold Start Voltage 46.0VDC

Low DC Warning Voltage	
@ load < 20%	46.0VDC
@ 20% ≤ load < 50%	42.8VDC
@ load ≥ 50%	40.4VDC
Low DC Warning Return Voltage	
@ load < 20%	48.0VDC
@ 20% ≤ load < 50%	44.8VDC
@ load ≥ 50%	42.4VDC
Low DC Cut-off Voltage	
@ load < 20%	44.0VDC
@ 20% ≤ load < 50%	40.8VDC
@ load ≥ 50%	38.4VDC
High DC Recovery Voltage	62VDC
High DC Cut-off Voltage	63VDC
DC Voltage Accuracy	+/-0.3V@ no load
THDV	<5% for linear load,<10% for non-linear load @ nominal voltage
DC Offset	≦100mV

Solar Input	
MODEL	RS-H6548V5
Rated Power	8000W
Max. PV Array Open Circuit Voltage	550VDC
PV Array MPPT Voltage Range	90VDC~450VDC
Max. Input Current	18A x 2
Start-up Voltage	80V +/- 5VDC

Power Limitation

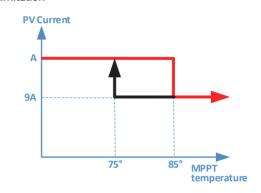


Table 3: Charge Mode Specifications

Utility Charging Mode	
MODEL	RS-H6548V5
Charging Current (UPS) @ Nominal Input Voltage	120A
Bulk Charging Voltage	
Flooded Battery	58.4VDC
AGM / Gel Battery	56.4VDC
Floating Charging Voltage	54VDC
Overcharge Protection	66VDC
Charging Algorithm	3-Step

Table 4: General Specifications

MODEL		RS-H6548V5
Safety Certification		UL 1741 by TUV
Operating Temperatu	re Range	-10°C to 40°C
Storage temperature		-15°C~ 60°C
Humidity	5% to 95% Relative I	Humidity (Non-condensing)
Dimension (mm)	147.4 x 432.5 x 575.6	(620.6) (with extension box)
Net Weight (kg)		18.4

Charging Curve

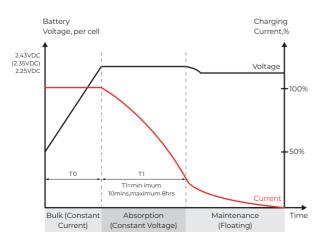


Table 5: Parallel Specifications (Parallel model only)

Max parallel numbers	6
Circulation Current under No Load Condition	Max 2A
Power Unbalance Ratio	<5% @ 100% Load
Parallel communication	CAN
Transfer time in parallel mode	Max 50ms
Parallel Kit	YES

Note: Parallel feature will be disabled when only PV power is available