

# TS-400-148A

Special Inverter of DAHUA Solar Power Supply System



## Features

- True sine wave output (THD<3%)
- 42~60VDC wide-range input voltage, suitable for 48V battery of solar power supply system
- High efficiency up to 87%
- Protections: Battery low alarm / Battery low shutdown / Over voltage / Over temperature / Output short / Input reverse polarity / Overload
- Output voltage / frequency adjustable

## Technical Specification

**Model** TS-400-148A

### Output

Rated Power	400W
Max. Output Power	460W for 180 sec. / 600W for 10 sec. / surge power 800W for 30 cycles
AC Voltage	Factory setting set at 110VAC
	100 / 110 / 115 / 120Vac selectable by setting button
Frequency	60±0.1Hz 50/60Hz selectable by setting button
Wave Form	True sine wave (THD<3%)
Front Panel Indicator	Green : normal, Red : abnormal

### Input

Voltage Range	42 ~ 60VDC
DC Current	10A
No Load Current Draw	0.32A
Efficiency	87%
Battery Types	Gel battery & lead-acid battery

### Battery Input Protection

Fuse	20A*1
Battery Low Alarm	45VDC ± 4%
Battery Low Shutdown	42VDC ± 4%
Battery Polarity	By internal fuse open

### Output Protection

Over Temperature	70°C±5°C (158°F±41°F)
Output Short	Protection type : Shut down o/p voltage, re-power on to recover
Over Load	105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.
	Protection type : Shut down o/p voltage, re-power on to recover0

### Environment

Working Temperature	-10 °C ~ +40 °C (+14 °F ~ +104 °F ) @100% load ; +60 °C(+140 °F ) @50% load
Working Humidity	20% ~ 90% RH
Storage Temperature	-30 °C ~ +70 °C (-22 °F ~ +158 °F )
Storage Humidity	10% ~ 95% RH

### Structural Parameter

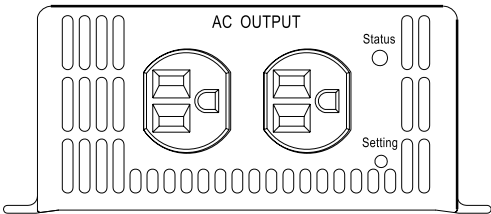
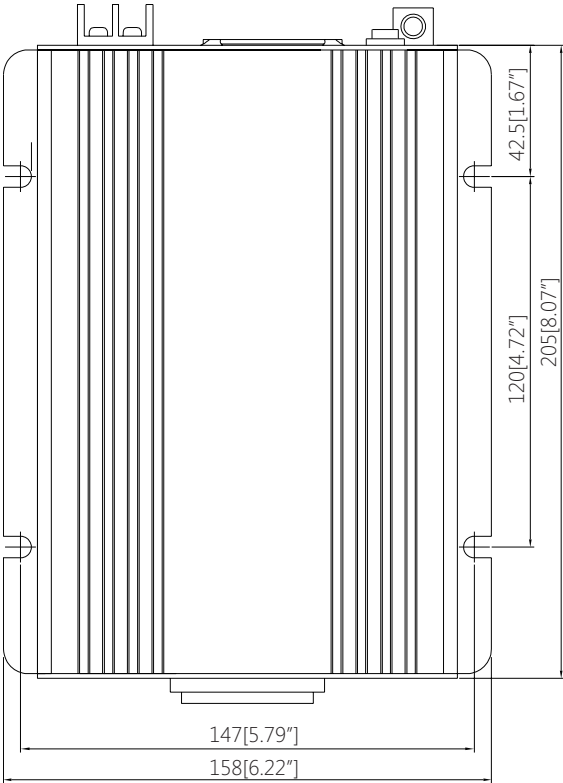
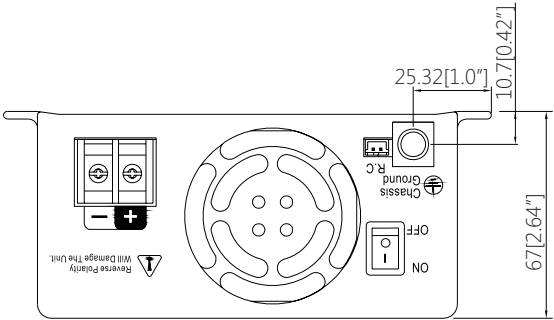
Weight	1.5kg (3.3lb)
Dimension (LxWxH)	205mmx158mmx67mm (8.07"x6.22"x2.64")

Certifications

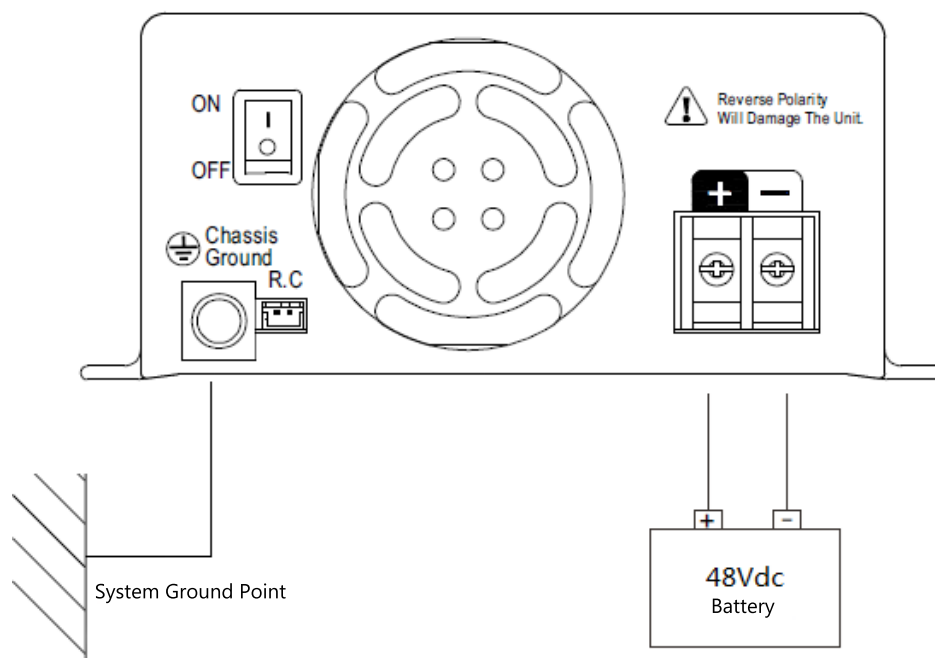
Certifications	FCC (47CFR FCC Part 15 Subpart B)
Note: 1. In view of the outdoor high temperature environment, the actual application process does not exceed 50% load. 2. AC regulation and THD are tested by 400W, linear load at 52V input voltage. 3. The tolerance of each voltage value by models is ±2V. 4. Efficiency is tested by 300W, linear load at 52V input voltage.	

Ordering Information		
Type	Part Number	Description
Power Series	TS-400-148A	Special inverter of dahua solar power supply system _North American
	TS-400-248B	Special inverter of dahua solar power supply system _European

Dimension(mm/inch)



## Application



## Package Information

- Special inverter of dahua solar power supply system TS-400-148A\*1
- User manual \*1