

ODA50248

Off grid inverter



Note:

1. Specifications are subject to change without prior notice;
2. Special voltage and power requirements can be customized according to the actual situation of users.

5KW

TECHNICAL DATA

model	ODA50248	
Rated power	5000W	
Peak power(20ms)	15KVA	
Battery voltage	48VDC	
Product size (L* W* H mm)	476x350x118	
Package size (L* W* H mm)	502x414x172	
Net weight (kg)	11.8	
Gross weight (kg)	12.8	
Installation method	Wall mounted	

Built in MPPT solar controller (optional)		Built in PWM solar controller (optional)	
Charging mode	MPPT	Charging mode	PWM
Rated PV input voltage	360VDC	Charging current	60A/120A
MPPT tracking voltage range	120V-450V	PV input voltage range	60-88V
Maximum PV input voltage (at minimum temperature)	500V	Maximum PV input voltage (at minimum temperature)	100V
Maximum power of photovoltaic array	6000W	Maximum power of photovoltaic array	3360W/6720W
Number of MPPT tracking channels (input channels)	1	Number of PV input channels	1 or 2

Input	
DC input voltage range	42VDC-60VDC
Rated AC input voltage	220VAC /230VAC /240VAC
AC input voltage range	170VAC-280VAC (UPS mode) / 120VAC-280VAC (INV mode)
AC input frequency range	45Hz~55Hz (50Hz), 55Hz~65Hz (60Hz)

Output	
Output efficiency (battery / PV mode)	94% (peak value)
Output voltage (battery / PV mode)	220VAC±2% /230VAC±2% /240VAC±2%
Output frequency (battery / PV mode)	50Hz±0.5or60Hz±0.5
Output waveform (battery / PV mode)	Pure sine wave
Efficiency (AC mode)	>99%
Output voltage (AC mode)	Same as input
Output frequency (AC mode)	Same as input
Output waveform distortion (battery / photovoltaic mode)	<3%(Linear load)
No load loss (battery mode)	<1% Rated power
No load loss (AC mode)	<0.5% Rated power(charger does not work in AC mode)

Battery	Protective measures
VRLA Battery	Charging voltage: 13.8V Floating charge voltage: 13.7V (single cell voltage) Battery undervoltage protection value +0.5V (single battery voltage)
Custom battery	Low battery voltage warning Factory default value: 10.5V (single battery voltage)
Maximum AC charging current	60A Battery low voltage protection Factory default value: 10.5V (single battery voltage)
Maximum PV charging current (built-in MPPT controller mode)	100A Battery overvoltage warning Constant charging voltage +0.8V (single battery voltage)
Maximum charging current (mains + PV) (built-in MPPT controller mode)	100A Battery overvoltage protection Factory default value: 17V (single battery voltage)
Maximum charging current (mains + PV) (built-in PWM charger mode)	Mains 60A+ PWM controller charging current Battery overvoltage recovery voltage Automatic protection (battery mode), circuit breaker or safety device (AC mode)
Charging mode	Three stage type (constant current, constant voltage, floating charge) Inverter output short circuit protection Automatic protection (battery mode), circuit breaker or safety device (AC mode)

Attribute	
Working Mode	Battery First/AC First/Saving Energy Mode
Transfer Time	<4ms
Display	LCD + LED
Thermal method	Cooling fan in intelligent control
Communication	RS485/APP (Wifi monitoring or GPRS monitoring)

Environment	
Operating temperature	-10°C~40°C
Storage temperature	-15°C~60°C
Noise	<55dB
Height	2000m (More than derating)
Humidity	0%~95% (No condensation)