



SHENZHEN KOMINITY NEW ENERGY CO.,LTD

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company profile

Adhering to the concept of win-win cooperation and maintaining technological innovation, the company focuses on meeting customer needs as its core driving force. KOMINITY specializes in solar power generation and energy storage technologies, using clean energy to solve the global power supply problem. The company is based on inverter technology and, with its rich experience in power system integration, provides customers with reliable power supply.

Values

Win-win Pragmatism Dedication

Vision

A Community of Shared Interests in Smart Energy

Mission

Devote to the new energy field, deepen product applications, and provide reliable clean energy supply for all mankind.

KOMINITY, supported by a professional R&D team and continuously innovative product technologies, has obtained multiple international certifications—including CE, UL, and FCC—as well as numerous R&D patents.

TEST REPORT
UL 1741
Inverters, Converters, Controllers and Interconnection System
Equipment for Use with Distributed Energy Resources

Report Number: LCSA04030899S
Date of issue: 2024-07-05
Total number of pages: 131

Applicant's name: Shen Zhen KOMINITY New Energy Co., Ltd.
Address: Room 5, 2009, Block F, Xihai Mingzhu Garden, No. 1, Taoyuan East Road, Dawangshan Community, Nanhai Sub-district, Nanshan District, Shenzhen City

Test specification: UL 1741: 2021 (Third Edition)
Test procedure: Type Tested
Non-standard test method: N/A
Test Report Form No.: TRF-4-S-117 A/O
Test Report Form(s) Originator: Shenzhen LCS Compliance Testing Laboratory Ltd
Master TRF: Dated 2023-09

General disclaimer:
The test results presented in this report relate only to the object tested.

TEST REPORT
UL 1741
Inverters, Converters, Controllers and Interconnection System
Equipment for Use with Distributed Energy Resources

Report Number: LCSA04100789S
Date of issue: 2024-07-05
Total number of pages: 131

Applicant's name: Shen Zhen KOMINITY New Energy Co., Ltd.
Address: Room 5, 2009, Block F, Xihai Mingzhu Garden, No. 1, Taoyuan East Road, Dawangshan Community, Nanhai Sub-district, Nanshan District, Shenzhen City

Test specification: UL 1741: 2021 (Third Edition)
Test procedure: Type Tested
Non-standard test method: N/A
Test Report Form No.: TRF-4-S-117 A/O
Test Report Form(s) Originator: Shenzhen LCS Compliance Testing Laboratory Ltd
Master TRF: Dated 2023-09

General disclaimer:
The test results presented in this report relate only to the object tested.

TEST REPORT
UL 1741
Inverters, Converters, Controllers and Interconnection System
Equipment for Use with Distributed Energy Resources

Report Number: LCSA04032889S
Date of issue: 2024-07-05
Total number of pages: 131

Applicant's name: Shen Zhen KOMINITY New Energy Co., Ltd.
Address: Room 5, 2009, Block F, Xihai Mingzhu Garden, No. 1, Taoyuan East Road, Dawangshan Community, Nanhai Sub-district, Nanshan District, Shenzhen City

Test specification: UL 1741: 2021 (Third Edition)
Test procedure: Type Tested
Non-standard test method: N/A
Test Report Form No.: TRF-4-S-117 A/O
Test Report Form(s) Originator: Shenzhen LCS Compliance Testing Laboratory Ltd
Master TRF: Dated 2023-09

General disclaimer:
The test results presented in this report relate only to the object tested.

Attestation of Compliance

Reference No.: LCSA06156001E
Applicant: Shenzhen KOMINITY New Energy Co., Ltd.
Address: Room 203, Building 2, Weihao Industrial Park, Weitai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province

Trade Mark: KOMINITY
Product: Hybrid Solar Inverter
Model: OCT-S-4-12KW, OCT-S-4-10KW, OCT-S-4-8KW

Tested according to: EN IEC 61000-4-2:2019
EN IEC 61000-4-2:2019
EN IEC 61000-3-2:2013A2:2024
EN IEC 61000-3-2:2013A2:2021A2:2022

The submitted products have been tested by us with the listed standards. This Attestation of Compliance is issued according to the Council Directive 2014/53/EU, referred to as the Low Voltage Directive. It confirms that the listed product complies with all essential requirements of the EMC Directive and applies only to the sample and its technical documentation submitted to Shenzhen LCS Compliance Testing Laboratory Ltd. for testing. After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant Directives have to be observed.

CE

Date of issue: June 17, 2026

Manager

Attestation of Compliance

Reference No.: LCSA06156002S
Applicant: Shenzhen KOMINITY New Energy Co., Ltd.
Address: Room 203, Building 2, Weihao Industrial Park, Weitai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province

Product: Hybrid Solar Inverter
Trade Mark: KOMINITY
Model(s): OCT-S-4-12KW, OCT-S-4-10KW, OCT-S-4-8KW

Parameters: Details to see test report model list
Tested according to: EN 62109-1:2010; EN 62109-2:2011

The submitted products have been tested by us with the listed standards. This Attestation of Compliance is issued according to the Council Directive 2014/35/EU, referred to as the Low Voltage Directive. It confirms that the listed product complies with all essential requirements of the LVD Directive and applies only to the sample and its technical documentation submitted to Shenzhen LCS Compliance Testing Laboratory Ltd. for testing. After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant Directives have to be observed.

CE

Date of issue: June 18, 2026

Manager

Attestation of Compliance

Reference No.: LCSA06156003E
Applicant: Shenzhen KOMINITY New Energy Co., Ltd.
Address: Room 203, Building 2, Weihao Industrial Park, Weitai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province

Trade Mark: KOMINITY
Product: Hybrid Solar Inverter
Model: OCT-S-4-8KW

Tested according to: EN IEC 61000-4-2:2019
EN IEC 61000-4-2:2019
EN IEC 61000-3-2:2013A2:2024
EN IEC 61000-3-2:2013A2:2021A2:2022

The submitted products have been tested by us with the listed standards. This Attestation of Compliance is issued according to the Council Directive 2014/53/EU, referred to as the Low Voltage Directive. It confirms that the listed product complies with all essential requirements of the EMC Directive and applies only to the sample and its technical documentation submitted to Shenzhen LCS Compliance Testing Laboratory Ltd. for testing. After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant Directives have to be observed.

CE

Date of issue: June 17, 2026

Manager

Attestation of Compliance

Reference No.: LCSA06156004S
Applicant: Shenzhen KOMINITY New Energy Co., Ltd.
Address: Room 203, Building 2, Weihao Industrial Park, Weitai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province

Product: Hybrid Solar Inverter
Trade Mark: KOMINITY
Model(s): OCT-S-4-8KW

Parameters: Details to see test report model list
Tested according to: EN 62109-1:2010; EN 62109-2:2011

The submitted products have been tested by us with the listed standards. This Attestation of Compliance is issued according to the Council Directive 2014/35/EU, referred to as the Low Voltage Directive. It confirms that the listed product complies with all essential requirements of the LVD Directive and applies only to the sample and its technical documentation submitted to Shenzhen LCS Compliance Testing Laboratory Ltd. for testing. After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant Directives have to be observed.

CE

Date of issue: June 18, 2026

Manager

Attestation of Compliance

Reference No.: LCSA06156005E
Applicant: Shenzhen KOMINITY New Energy Co., Ltd.
Address: Room 203, Building 2, Weihao Industrial Park, Weitai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province

Trade Mark: KOMINITY
Product: Solar Inverter
Model: BIN-S-4-8KW

Tested according to: EN IEC 61000-4-2:2019
EN IEC 61000-4-2:2019
EN IEC 61000-3-2:2013A2:2024
EN IEC 61000-3-2:2013A2:2021A2:2022

The submitted products have been tested by us with the listed standards. This Attestation of Compliance is issued according to the Council Directive 2014/53/EU, referred to as the Low Voltage Directive. It confirms that the listed product complies with all essential requirements of the EMC Directive and applies only to the sample and its technical documentation submitted to Shenzhen LCS Compliance Testing Laboratory Ltd. for testing. After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant Directives have to be observed.

CE

Date of issue: June 17, 2026

Manager

Attestation of Compliance

Reference No.: LCSA06156006S
Applicant: Shenzhen KOMINITY New Energy Co., Ltd.
Address: Room 203, Building 2, Weihao Industrial Park, Weitai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province

Product: Solar Inverter
Trade Mark: KOMINITY
Model(s): BIN-S-4-8KW

Parameters: Details to see test report model list
Tested according to: EN 62109-1:2010; EN 62109-2:2011

The submitted products have been tested by us with the listed standards. This Attestation of Compliance is issued according to the Council Directive 2014/35/EU, referred to as the Low Voltage Directive. It confirms that the listed product complies with all essential requirements of the LVD Directive and applies only to the sample and its technical documentation submitted to Shenzhen LCS Compliance Testing Laboratory Ltd. for testing. After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant Directives have to be observed.

CE

Date of issue: June 18, 2026

Manager

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CONTENTS(American Standard Series)



OCT Series
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OCT Series(three phase)
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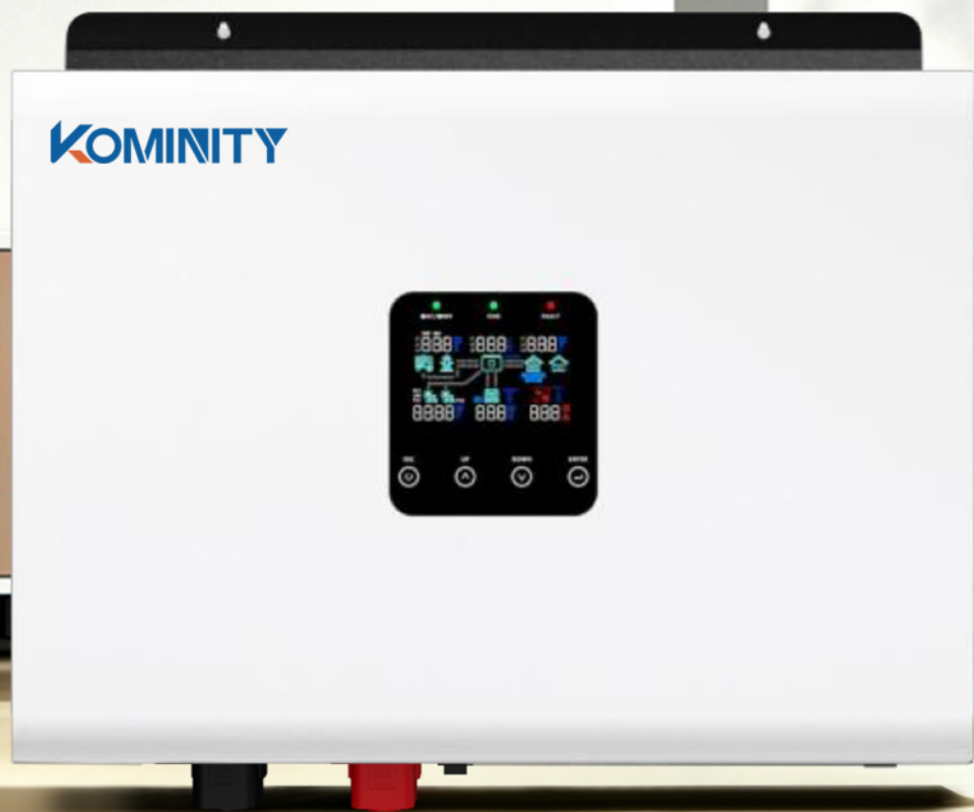
OCT Series
3KW Hybrid Solar Inverter
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OCT Series
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BIN-S-I-6KW

- Dual outputs for smart load management
- Rated power at 6KW, power factor 1.0
- Parallel operation up to 9 units
- 2 strings of MPPT
- Max PV. array power 8000watt
- 500Vdc high PV input voltage
- The built-in ATS can automatically switch between generator power and mains power input
- WiFi monitor (Optional).
- Overload, short circuit and deep discharge protection
- Can provide the power to the load without battery



Modle	BIN-S-I-6KW
AC Output	
Rated Power	6kVA/6kW
Surge Power	12kW/12kVA
AC Output Voltage	208/220/230/240Vac(Settable)
Rated AC Output Frequency	50/60Hz
Max Bypass Output Current	40A
AC Output Interface	Load+Smart Load
Max Inverter Efficiency	94%
Transfer Time	<20ms@Single, <30ms @ Parallel
Output Waveform	Pure Sine Wave
Power Factor	1
No-Load Loss	<45W@Rate Voltage
PV Input	
Number Of MPP Trackers	2
Max PV Input Power	4000W*2
Max PV Array Open Circuit Voltage	500Vdc
Rated Input Voltage Of Photovoltaic System	250Vdc
Max PV Input Current	16A *2
Startup Voltage	100Vdc±10Vdc
MPPT Voltage Range	65Vdc-450Vdc
Battery	
Compatible Battery Types	Lead-acid、Lithium
Rated Battery Voltage	48Vdc
Battery Voltage Range	40Vdc-60Vdc
Minimum Cold Start Battery Voltage	46Vdc
Battery Overcharge Protection Voltage	60Vdc
Max Solar Charging Current	100A
Max AC Charging Current	80A
Max Charging Current(PV+AC)	100A
Max Charging Power	5800W
MPPT Charging Efficiency	99%
Activate The Lithium Battery Function	PV+AC
Mechanical Specifications	
Inverter Dimensions	392*282*128mm
Packing Measurements	475*440*203mm
Net Weight	9.8KG
Gross Weight	11.2KG
Communication Interface	USB / CAN / RS485
Monitoring Option	WiFi Module
Quality Guarantee	3 Years
Environment	
Protection Degree	IP20
Humidity	5% to 95% Relative Humidity (Non-condensing)
Altitude	<2000 Meters
Operating Temperature	-10℃~50℃
Storage Temperature	-15℃~60℃
Noise	<60dB
Type Of Cooling	Fan
Certificate	CE, IEC62109-1, IEC62109-2

Hybrid Solar Inverter

OCT-S-I-6KW

- Dual outputs for smart load management
- Rated power at 6KW, power factor 1.0Max
- Inverter Efficiency 96.5%
- No-Load Loss ≤ 45w
- Parallel Operation up to 9 units
- 2 strings of MPPT
- Max PV array power 9000 watt
- 65V-450V wide-range PV input operating voltage
- The built-in ATS can automatically switch between generator power and mains power input
- The working duration of the generator and the charging current can be set



Modle	OCT-S-I-6KW
AC Output(Off Grid)	
Rated Power	6kW/6kVA
Surge Power	12kW/12kVA
AC Output Voltage	208/220/230/240Vac(Settable)
Rated AC Output Frequency	50Hz / 60Hz (Auto detection)
Max Bypass Output Current	40A
AC Output Interface	Load+Smart Load
Max Inverter Efficiency	96.5%
Transfer Time	<20ms@Single, <30ms @ Parallel
Output Waveform	Pure Sine Wave
Power Factor	1
No-Load Loss	<45W@Rate Voltage
AC Output (On Grid)	
Rated Power	6kW/6kVA
Power Factor	0.8 leading to 0.8 lagging
Rated Voltage	230Vac
Rated Grid Frequency	50Hz
Max Output Current	27A
THD	< 5%
PV Input	
Number Of MPPT Trackers	2
Max PV Input Power	4500W*2
Max PV Array Open Circuit Voltage	500Vdc
Rated Input Voltage Of Photovoltaic System	350Vdc
Max PV Input Current	18.5A*2
Startup Voltage	100Vdc ±10Vdc
MPPT Voltage Range	65Vdc-450Vdc
Battery	
Compatible Battery Types	Lead-acid、Lithium battery
Rated Battery Voltage	48Vdc
Battery Voltage Range	38.4Vdc-60Vdc
Minimum Cold Start Battery Voltage	46Vdc
Battery Overcharge Protection Voltage	60Vdc
Max Solar Charging Current	100A
Max AC Charging Current	80A
Max Charging Current(PV+AC)	100A
Max Charging Power	5840W
MPPT Charging Efficiency	99.9%
Activate The Lithium Battery Function	PV+AC
Mechanical Specifications	
Inverter Dimensions	395*300*125mm
Packing Measurements	475*440*203mm
Net Weight	10.35KG
Gross Weight	12KG
Communication Interface	USB / CAN / RS485 / CT
Monitoring Option	WiFi Module
Quality Guarantee	3 Years
Environment	
Protection Degree	IP20
Humidity	5%~95% relative humidity (non-condensing)
Altitude	<2000 Meters
Operating Temperature	-10℃~50℃
Storage Temperature	-15℃~60℃
Noise	<60dB
Type Of Cooling	Fan
Certificate	CE, Compliant with NRS097/EN50549-1/ EN50549-10 and other certification standards

Hybrid Solar Inverter

OCT-S-I(8-12KW)

- Dual outputs for smart load management.
- Power Factor 1.0.
- Max Inverter Efficiency 96.5%.
- Paraleloperation up to 9 units.
- 1.5 times PV input power configuration.
- 2 strings of MPPT.
- 65V - 500V wide-range PV input operating voltage.
- The built-in ATS can automatically switch between generator power and mains power input.
- The working duration of the generator and the charging current can be set.



Modle	OCT-S-I-8KW	OCT-S-I-10KW	OCT-S-I-12KW
AC Output (Off Grid)			
Rated Power	8kW/8kVA	10kW/10kVA	12kW/12kVA
Surge Power	16kW/16kVA	20kW/20kVA	24kW/24kVA
Parallel Option	9Pcs		
AC Output Voltage	208/220/230/240Vac(Settable)		
Rated AC Output Frequency	50Hz / 60Hz (Auto detection)		
Max Bypass Output Current	70A	70A	70A
AC Output Interface	Load+Smart Load		
Max Inverter Efficiency	96.5% (PV/AC)		
Transfer Time	<10ms@Single,<30ms @ Parallel		
Output Waveform	Pure Sine Wave		
Power Factor	1		
No-Load Loss	<75W@Rate Voltage		
AC Output (On Grid)			
Rated Power	8kW/8kVA	10kW/10kVA	12kW/12kVA
Power Factor	0.8 leading to 0.8 lagging		
Rated Voltage	230Vac		
Rated Grid Frequency	50Hz		
Max Output Current	35A	44A	53A
THD	<5%		
PV input			
Type Of PV Array Input Terminal	Screw-type terminal block		
Number Of MPPT Trackers	2		
Max PV Input Power	6000W*2	7500W*2	9000W*2
Max PV Array Open Circuit Voltage	550Vdc		
Rated Input Voltage Of Photovoltaic System	380Vdc		
Max PV Input Current	27A*2		
Startup Voltage	65Vdc		
MPPT Voltage Range	65~500Vdc		
Battery			
Compatible Battery Types	Lithium battery, lead-acid battery		
Rated Battery Voltage	48V		
Battery Voltage Range	38.4Vdc~60Vdc		
Minimum Cold Start Battery Voltage	46Vdc		
Battery Overcharge Protection Voltage	60Vdc		
Max Solar Charging Current	190A	220A	250A
Max AC Charging Current	170A	190A	210A
Max Charine Curent(PV+AC)	190A	220A	250A
Max Charging Power	8000W	10000W	12000W
MPP tracking efficiency	99.9%		
Activate The Lithium Battery Function	PV/AC		
Mechanical Specifications			
Inverter Dimensions	470*395*135mm		
Packing Measurements	565*485*231mm		
Net Weight	16.25kg	16.35kg	16.55kg
Gross Weight	18.2kg	18.3kg	18.5kg
Communication Interface	USB / CAN /RS485/CT		
Monitoring Option	WiFi Module		
Quality Guarantee	3 years		
Environment			
Protection Degree	IP20		
Humidity	5%~95% non-condensing		
Altitude	<2000 Meters		
Operating Temperature	-10℃~50℃		
Storage Temperature	-15℃~60℃		
Noise	<60db		
Type Of Cooling	Fan		
Certificate	CE、NRS097/EN50549-1/EN50549-10		

Hybrid Solar Inverter

OCT-T-I-(16-22KW)

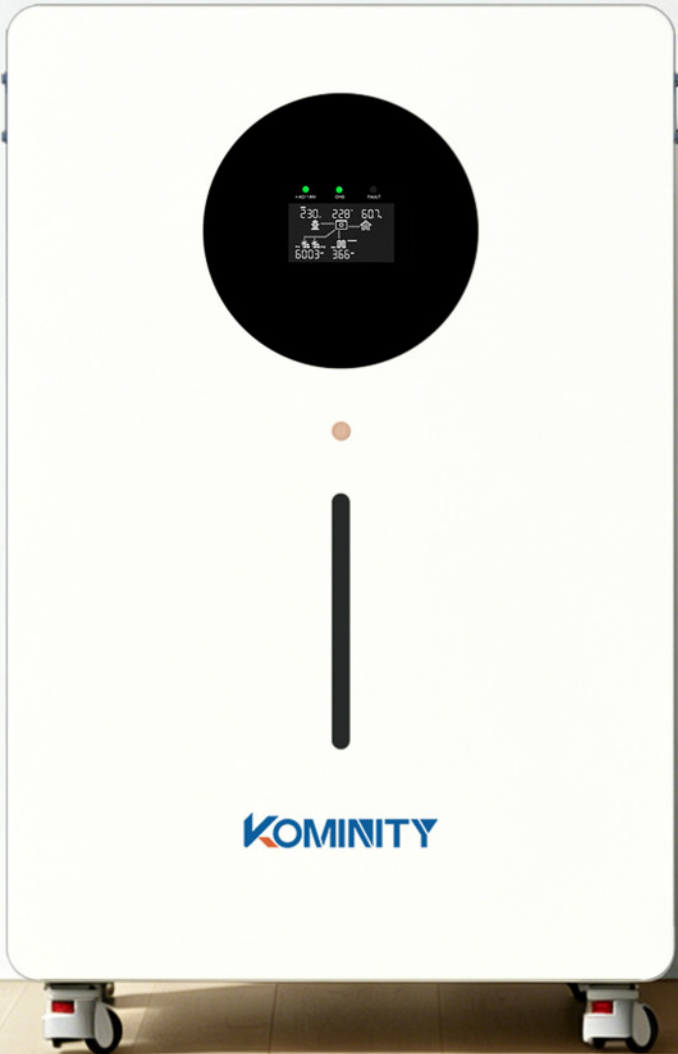
- Dual outputs for smart load management.
- Power Factor 1.0.
- Max Inverter Efficiency 95%.
- Paraleloperation up to 9 units.
- 2 strings of MPPT.
- 120V - 900V wide-range PV input operating voltage.
- The maximum charging power of 16.3KW.
- The built-in ATS can automatically switch between generator power and mains power input.
- The working duration of the generator and the charging current can be set.



Modle	OCT-T-I-16KW	OCT-T-I-18KW	OCT-T-I-20KW	OCT-T-I-22KW
AC Output				
Rated Power	16kW/16kVA	18kW/18kVA	20kW/20kVA	22kW/22kVA
Surge Power	32 kW/32 kVA	36kW/36 kVA	40kW/40 kVA	44 kW/44 kVA
AC Output Voltage	230/400Vac, 220/380Vac, 3L/N/PE			
Rated AC Output Frequency	50/60Hz auto sensing			
Max Bypass Output Current	52A			
Max Inverter Efficiency	96.5%			
Output Waveform	Pure Sine Wave			
No-Load Loss	<120W			
Max Output Current	24.3A	27.3A	30.3A	33.3A
THD	<3% for linear load, <5% for non-linear load @ V nominal			
PV Input				
Max. Power	16000W+16000W	18000W+18000W	20000W+20000W	22000W+22000W
Max. PV Array Open Circuit Voltage	1000Vdc			
Start-up Voltage	150Vdc±10Vdc			
Nominal PV Voltage	720Vdc			
Full load MPPT voltage rated	400Vdc ~ 900Vdc	450Vdc ~ 900Vdc	500Vdc ~ 900Vdc	550Vdc ~ 900Vdc
MPPT Voltage Range	150Vdc ~ 900Vdc			
Number Of MPP Trackers	2			
Max. DC Input Current	40Amp+40Amp			
Battery				
Rated Battery Voltage	48/51.2Vdc			
Battery Voltage Range	40Vdc-60Vdc			
Minimum Cold Start Battery Voltage	46.0Vdc			
Battery Overcharge Protection Voltage	60.0Vdc			
Max Solar Charging Current	340Amp	380Amp	420Amp	460Amp
Max AC Charging Current	300Amp	340Amp	380Amp	420Amp
Max Charging Current (PV+AC)	340Amp	380Amp	420Amp	460Amp
MPP tracking efficiency	99.9%			
Protection				
Over Current/Voltage Protection	Yes			
Anti-islanding Protection	Yes			
AC Short-Circuit Protection	Yes			
Leakage Current Protection	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
DC Surge Protection OVC II	Yes			
AC Surge Protection OVC III	Yes			
Environment				
Operation Temperature Range	-10°C ~ +50°C			
Storage Temperature Range	-15°C ~ +60°C			
Altitude	< 2000m			
Relative humidity	5% ~ 95% non-condensing			
Protection Degree	IP20			
Safety Certification	CE			

ESS-S-I-1606

- Full-power single- & split-phase.
- Integrated design.
- Built-in dual MPPT.
- PV input power is 1.5 times the AC rating.
- Up to 9 units can be paralleled.
- 3-years warranty.
- Intelligent dual AC outputs.
- Hybrid load support capability.
- Dedicated generator input interface.



Modle	ESS-S-I-1606
AC Output	
Rated Power	6k W/6 k VA
Surge Power	12kW/12 k VA
AC Output Voltage	230Vac
Rated AC Output Frequency	50Hz / 60Hz (Auto detection)
Max Bypass Output Current	40A
Max Inverter Efficiency	96.5% (PV/AC)
Output Waveform	Pure Sine Wave
No-Load Loss	<45W@Rate Voltage
Max Output Current	27A
THD	<5%
PV Input	
Number Of MPPT Trackers	2
Max PV Input power	4500W*2
Max PV Array Open Circuit Voltage	500Vdc
Rated Input Voltage	350Vdc
Max PV Input Current / Per String	18.5A*2
Startup Voltage	120Vdc
MPPT Voltage Range	65-450Vdc
No-Load Loss	<45W@Rate Voltage
Max Output Current	27A
THD	<5%
Battery	
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Max Solar Charging Current	100A
Max AC Charging Current	80A
Max Charging Current (PV+AC)	100A
Protection	
Over Current/Voltage Protection	Yes
Anti-islanding Protection	Yes
AC Short-Circuit Protection	Yes
Leakage Current Protection	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
DC Surge Protection OVC II	Yes
AC Surge Protection OVC III	Yes
Max Output Current	Yes
THD	Yes
Environment	
Humidity	5%~95% non-condensing
Altitude	<2000 Meters
Operating Temperature	-10℃~50℃
Storage Temperature	-15℃~60℃
Noise	<60dB
Certificate	CE, Compliant with NRS097/EN50549-1/EN 50549-10 and other certification standards

Hybrid Solar Inverter

OCT-S-I (8-12KW)

- Dual outputs for smart load management.
- Power Factor 1.0.
- Max Inverter Efficiency 96.5%.
- Paraleloperation up to 9 units.
- 1.5 times PV input power configuration.
- 2 strings of MPPT.
- 65V - 500V wide-range PV input operating voltage.
- The built-in ATS can automatically switch between generator power and mains power input.
- The working duration of the generator and the charging current can be set.



Modle	OCT-S-I-8KW	OCT-S-I-10KW	OCT-S-I-12KW
AC Output （Off Grid）			
Rated Power	8kW/8kVA	10kW/10kVA	12kW/12kVA
Surge Power	16kW/16kVA	20kW/20kVA	24kW/24kVA
Parallel Option	9PCS		
AC Output Voltage	208/220/230/240Vac(settable)		
Rated AC Output Frequency	50Hz / 60Hz (Auto detection)		
Max Bypass Output Current	70A		
AC Output Interface	Load+Smart Load		
Max Inverter Efficiency	96.5%（PV/AC）		
Transfer Time	<10ms@Single,<30ms @ Parallel		
Output Waveform	Pure Sine Wave		
Power Factor	1		
No-Load Loss	<75W@Rate Voltage		
AC Output （On Grid）			
Rated Power	8kW/8kVA	10kW/10kVA	12kW/12kVA
Power Factor	0.8 leading to 0.8 lagging		
Rated Voltage	230Vac		
Rated Grid Frequency	50Hz		
Max Output Current	35A	44A	53A
THD	<5%		
PV Input			
Type Of PV Array Terminal	Screw-type terminal block		
Number Of MPPT Trackers	2		
Max PV Input power	6000W*2	7500W*2	9000W*2
Max PV Array Open Circuit Voltage	550Vdc		
Rated Input Voltage Of Photovoltaic System	380Vdc		
Max PV Input Current	27A*2		
Startup Voltage	75Vdc		
MPPT Voltage Range	65~500Vdc		
Battery			
Compatible Battery Types	Lead-acid battery、Lithium battery		
Rated Battery Voltage	48/51.2Vdc		
Battery Voltage Range	38.4Vdc~60Vdc		
Minimum Cold Start Battery Voltage	46Vdc		
Battery Overcharge Protection Voltage	60Vdc		
Max Solar Charging Current	190A	220A	250A
Max AC Charging Current	170A	190A	210A
Max Charging Current (PV+AC)	190A	220A	250A
Max Charging Power	8000W	10000W	12000W
MPP tracking efficiency	99.9%		
Activate The Lithium Battery Function	PV/PC		
Mechanical Specifications			
Inverter Dimensions	505*468*135.5mm		
Communication Interface	USB/CAN/RS485/CT		
Monitoring Option	WiFi Module		
Warranty	3 years		
Environment			
Protection Degree	IP54		
Humidity	5%~95% non-condensing		
Altitude	<2000 Meters		
Operating Temperature	-10℃~50℃		
Storage Temperature	-15℃~60℃		
Noise	<60db		
Type of cooling	Fan		
Certificate	CE、NRS097/EN50549-1/EN50549-10		

Hybrid Solar Inverter

OCT-U-I-3.5KW

- Built-in dual MPPT.
- Double PV input power of rated AC output.
- Up to 9 units can be paralleled.
- 3-years warranty.
- Intelligent dual AC outputs.
- Hybrid load support capability.
- Dedicated generator input interface.
- No-load power consumption < 35W.



Modle	OCT-U-I-3.5KW-24	OCT-U-I-3.5KW
AC Output		
Rated Power	3.5kW/3.5kVA	
Surge Power	7kW/7kVA	
Parallel Option	9Pcs	
AC Output Voltage	100/110/120/127Vac	
Rated AC Output Frequency	50Hz / 60Hz (Auto detection)	
Max Bypass Output Current	40A	
AC Output Interface	Load+Smart Load	
Peak Efficiency	93%（BAT/AC）	
Transfer Time	<20ms@Single,<30ms @ Parallel	
Output Waveform	Pure Sine Wave	
Power Factor	1	
No-Load Loss	<35W@Rate Voltage	
AC Output (On Grid)		
Rated Power	3.5kW/3.5kVA	
Power Factor	0.8 leading to 0.8 lagging	
Rated Voltage	120Vac	
Rated Grid Frequency	60Hz	
Max Output Current	29.2A	
THD	<5%	
PV Input		
Type Of PV Array Input Terminal	Screw-type terminal block	
Number Of MPPT Trackers	2	
Max PV Input Power	3.5KW*2	
Max PV Array Open Circuit Voltage	325Vdc	
Rated Input Voltage Of Photovoltaic System	190Vdc	
Max PV Input Current / Per String	18.5A*2	
Startup Voltage	80Vdc	
MPPT Voltage Range	65-280Vdc	
Battery		
Compatible Battery Types	Lithium battery, lead-acid battery	
Rated Battery Voltage	24/25.6Vdc	48/51.2Vdc
Battery Voltage Range	19.2Vdc~30Vdc	38.4Vdc~60Vdc
Minimum Cold Start Battery Voltage	23Vdc	46Vdc
Battery Overcharge Protection Voltage	30Vdc	60Vdc
Max Discharging Current	140A	82A
Max Solar Charging Current	100A	60A
Max AC Charging Current	80A	40A
Max Charging Current (PV+AC)	100A	60A
Max Charging Power	2900W	3500W
MPP tracking efficiency	99.9%	
Activate the lithium battery function	Yes, PV+AC	
Mechanical Specifications		
Inverter Dimensions	395*300*125mm	
Packing Measurement	475*440*203mm	
Net Weight	10.35KG	
Gross Weight	12KG	
Communication Interface	USB / CAN /RS485	
Monitoring Option	WiFi Module	
Quality Guarantee	3 years	
Environment		
Protection Degree	IP20	
Humidity	5%~95% non-condensing	
Altitude	<2000 Meters	
Operating Temperature	-10℃~50℃	
Storage Temperature	-15℃~60℃	
Noise	<60db	
Type Of Cooling	Fan	
Certificate	UL 1741、FCC	

Hybrid Solar Inverter

OCT-P-I(8-12KW)

- Full-power single- & split-phase.
- Integrated design.
- Built-in dual MPPT.
- PV input power is 2 times the AC rating.
- Up to 9 units can be paralleled.
- 3-years warranty.
- Intelligent dual AC outputs.
- Hybrid load support capability.
- Dedicated generator input interface.



Modle	OCT-P-I-8KW	OCT-P-I-10KW	OCT-P-I-12KW
AC Output（Off Grid）			
Rated Power	8kW/8kVA	10kW/10kVA	12kW/12kVA
Surge Power	16kW/16kVA	20kW/20kVA	24kW/24kVA
Parallel Option	9PCS		
AC Output Voltage	Single Phase: 100V/110V/120V/127V 、 Split Phase: 120V/240V 2/3 Phase: 127V/220V 、 Parallel Mode Three-Phase: 120V/208V		
Rated AC Output Frequency	50Hz / 60Hz (Auto detection)		
Max Bypass Output Current	70Amp（Single Phase: 120A）		
Max Inverter Efficiency	96.5%（PV/AC）		
Transfer Time	<20ms@Single,<30ms @ Parallel		
Output Waveform	Pure Sine Wave		
No-Load Loss	<75W@Rate Voltage		
AC Output（On Grid）			
Rated Power	8kW/8kVA	10kW/10kVA	12kW/12kVA
Power Factor	0.8 leading to 0.8 lagging		
Rated Voltage	Single Phase: 100V/110V/120V/127V 、 Split Phase: 120V/240V 、 2/3 Phase: 127V/220V 、 Parallel Mode Three-Phase: 120V/208V		
Rated Grid Frequency	50Hz/60Hz（Auto detection）		
Max Output Current	34A(Split Phase) 67A(Single Phase)	42A(Split Phase) 84A(Single Phase)	50A(Split Phase) 100A(Single Phase)
PV Input			
Number Of MPPT Trackers	2		
Max PV Input power	8000W*2	10000W*2	12000W*2
Max PV Array Open Circuit Voltage	550Vdc		
Max PV Input Current	27A*2		
Startup Voltage	75Vdc		
MPPT Voltage Range	65~500Vdc		
Battery			
Compatible Battery Types	Lead-acid、Lithium battery		
Rated Battery Voltage	48Vdc		
Battery Voltage Range	38.4Vdc~60Vdc		
Cold Start Battery Voltage	46Vdc		
Max Solar Charging Current	190A	220A	250A
Max AC Charging Current	190A	220A	250A
Max Charging Current (PV+AC)	190A	220A	250A
MPP tracking efficiency	99.9%		
Protection			
Over Current/Voltage Protection	Yes		
Anti-islanding Protection	Yes		
AC Short-Circuit Protection	Yes		
Leakage Current Protection	Yes		
Ground Fault Monitoring	Yes		
Grid Monitoring	Yes		
DC Surge Protection OVC II	Yes		
AC Surge Protection OVC III	Yes		
Mechanical Specifications			
Inverter Dimensions	521*437*142mm		
Packing Measurements	607*505*231mm		
Net Weight	19.3KG	19.4KG	19.6KG
Gross Weight	22.3KG	22.4KG	22.6KG
Communication Interface	USB/CAN/RS485/CT		
Monitoring Option	WiFi Module		
Warranty	3 years		
Environment			
Protection Degree	IP20		
Humidity	5%~95% non-condensing		
Altitude	<2000 Meters		
Operating Temperature	-10℃~50℃		
Storage Temperature	-15℃~60℃		
Noise	<60dB		
Certificate	UL 1741、FCC		

Factory View



Outbound Shipment Logs



Application Case



6kW Installation Case -Poland



6kW Installation Case -Nigeria



12kW Installation Case -Myanmar



6kW Installation Case - Vietnam



12kW Installation Case - Democratic Republic of the Congo