



Million Power

# SOLAR HYBRID INVERTERS

*Smarter Energy. Stronger Future.*



**MAXIMIZE SOLAR  
ENERGY UTILIZATION**



**INTELLIGENT BATTERY  
MANAGEMENT**



**UNINTERRUPTED  
POWER SUPPLY**



**ADVANCED SAFETY  
& PROTECTION**



**HIGH EFFICIENCY  
& RELIABILITY**



*Powering Homes  
Empowering Businesses  
Building a Sustainable Tomorrow*



**PREMIUM  
QUALITY**



**RELIABLE  
PERFORMANCE**



**SMART  
ECHNOLOGY**



**GREEN  
ENERGY**

# Hybrid Solar Inverters – Sun Series

## Smart & Reliable Power

A next-gen inverter that combines solar + battery + grid in one system.  
Perfect for homes, businesses & industries.

### Key Features

- ✓ Power Range - 4Kw
- ✓ Rating Voltage - 24V DC
- ✓ 97.6% conversion efficiency with advanced MPPT
- ✓ Supports grid-tied & off-grid mode
- ✓ Built-in MPPT Controller
- ✓ Battery-ready with AC coupling for retrofit
- ✓ Stores energy from solar or diesel generator
- ✓ Mobile app for real-time monitoring



**SUN - 4Kw**  
**IP-21**

### Applications



Homes



Offices



Industrial



Agriculture



Commercial

### Technical Specification

| Model                                 | SUN-ESTL-4K-HINV-P1                                             |
|---------------------------------------|-----------------------------------------------------------------|
| Default Battery System Voltage        | 24VDC                                                           |
| <b>INVERTER OUTPUT</b>                |                                                                 |
| Rated Power                           | 4000VA/ 4000W                                                   |
| Surge Power                           | 8000W                                                           |
| Waveform                              | Pure sine wave                                                  |
| AC Voltage Regulation (Batt.Mode)     | 230VAC±5%(Setting)                                              |
| Inverter Efficiency(Peak)             | 92%                                                             |
| Transfer Time                         | 10ms(UPS / VDE4105) / 20ms(APL)                                 |
| <b>AC INPUT</b>                       |                                                                 |
| Voltage                               | 230VAC                                                          |
| Selectable Voltage Range              | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)              |
| Frequency Range                       | 50Hz / 60Hz (Auto sensing)                                      |
| <b>BATTERY</b>                        |                                                                 |
| Normal voltage                        | 24VDC                                                           |
| Floating Charge Voltage               | 27.4VDC                                                         |
| Overcharge Protection                 | 30VDC                                                           |
| <b>SOLAR CHARGER &amp; AC CHARGER</b> |                                                                 |
| Maximum PV Array Open Circuit Voltage | 500VDC                                                          |
| Charging Algorithm                    | 3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li) |
| Maximum PV Array Power                | 5000W                                                           |
| Maximum PV Input Current              | 18A                                                             |
| PV Array MPPT Voltage Range           | 90~430VDC                                                       |
| Maximum Solar Charge Current          | 100A                                                            |
| Maximum AC Charge Current             | 80A                                                             |
| Maximum Charge Current                | 100A                                                            |



Solar Power



Battery Storage



Backup Power



Smart Energy Management

# Hybrid Solar Inverters – Sun Series

## Smart & Reliable Power

A next-gen inverter that combines solar + battery + grid in one system.  
Perfect for homes, businesses & industries.

### Key Features

- ✓ Power Range - 6Kw
- ✓ Rating Voltage - 48V DC
- ✓ 97.6% conversion efficiency with advanced MPPT
- ✓ Supports grid-tied & off-grid mode
- ✓ Built-in MPPT Controller
- ✓ Battery-ready with AC coupling for retrofit
- ✓ Stores energy from solar or diesel generator
- ✓ Mobile app for real-time monitoring



**SUN - 6Kw**  
**IP-21**

### Applications



Homes



Offices



Industrial



Agriculture



Commercial

### Technical Specification

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| <b>Model</b>                          | <b>SUN-ESTL-6K-HINV-P1</b>                                      |
| Default Battery System Voltage        | 48VDC                                                           |
| <b>INVERTER OUTPUT</b>                |                                                                 |
| Rated Power                           | 6000VA/6000W                                                    |
| Surge Power                           | 12000W                                                          |
| Waveform                              | Pure sine wave                                                  |
| AC Voltage Regulation (Batt.Mode)     | 230VAC±5%(Setting)                                              |
| Inverter Efficiency(Peak)             | 92%                                                             |
| Transfer Time                         | 10ms(UPS / VDE4105) / 20ms(APL)                                 |
| <b>AC INPUT</b>                       |                                                                 |
| Voltage                               | 230VAC                                                          |
| Selectable Voltage Range              | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)              |
| Frequency Range                       | 50Hz / 60Hz (Auto sensing)                                      |
| <b>BATTERY</b>                        |                                                                 |
| Normal voltage                        | 48VDC                                                           |
| Floating Charge Voltage               | 54.8VDC                                                         |
| Overcharge Protection                 | 60VDC                                                           |
| <b>SOLAR CHARGER &amp; AC CHARGER</b> |                                                                 |
| Maximum PV Array Open Circuit Voltage | 500VDC (450V for parallel)                                      |
| Charging Algorithm                    | 3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li) |
| Maximum PV Array Power                | 6000W                                                           |
| Maximum PV Input Current              | 27A                                                             |
| PV Array MPPT Voltage Range           | 120~430VDC                                                      |
| Maximum Solar Charge Current          | 120A                                                            |
| Maximum AC Charge Current             | 100A                                                            |
| Maximum Charge Current                | 120A                                                            |



Solar Power



Battery Storage



Backup Power



Smart Energy Management

# Hybrid Solar Inverters – Sun Series

## Smart & Reliable Power

A next-gen inverter that combines solar + battery + grid in one system.  
Perfect for homes, businesses & industries.

### Key Features

- ✓ Power Range - 8 & 11Kw
- ✓ Rating Voltage - 48V DC
- ✓ 97.6% conversion efficiency with advanced MPPT
- ✓ Supports grid-tied & off-grid mode
- ✓ Built-in MPPT Controller
- ✓ Battery-ready with AC coupling for retrofit
- ✓ Stores energy from solar or diesel generator
- ✓ Mobile app for real-time monitoring



**SUN - 8 & 11 Kw**  
**IP-21**

## Applications



Homes



Offices



Industrial



Agriculture



Commercial

## Technical Specification

| Model                                 | SUN-ESTL-8K-HINV-P1                                             | SUN-ESTL-11K-HINV-P1                                            |
|---------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Default Battery System Voltage        | 48VDC                                                           | 48VDC                                                           |
| <b>INVERTER OUTPUT</b>                |                                                                 |                                                                 |
| Rated Power                           | 8000VA/8000W                                                    | 11000VA/11000W                                                  |
| Surge Power                           | 16000W                                                          | 22000W                                                          |
| Waveform                              | Pure sine wave                                                  | Pure sine wave                                                  |
| AC Voltage Regulation (Batt.Mode)     | 230VAC±5%(Setting)                                              | 230VAC±5%(Setting)                                              |
| Inverter Efficiency(Peak)             | 92%                                                             | 92%                                                             |
| Transfer Time                         | 10ms(UPS / VDE4105) / 20ms(APL)                                 | 10ms(UPS / VDE4105) / 20ms(APL)                                 |
| <b>AC INPUT</b>                       |                                                                 |                                                                 |
| Voltage                               | 230VAC                                                          | 230VAC                                                          |
| Selectable Voltage Range              | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)              | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)              |
| Frequency Range                       | 50Hz / 60Hz (Auto sensing)                                      | 50Hz / 60Hz (Auto sensing)                                      |
| <b>BATTERY</b>                        |                                                                 |                                                                 |
| Normal voltage                        | 48VDC                                                           | 48VDC                                                           |
| Floating Charge Voltage               | 54.8VDC                                                         | 54.8VDC                                                         |
| Overcharge Protection                 | 60VDC                                                           | 60VDC                                                           |
| <b>SOLAR CHARGER &amp; AC CHARGER</b> |                                                                 |                                                                 |
| Maximum PV Array Open Circuit Voltage | 500VDC (450V for parallel)                                      | 500VDC (450V for parallel)                                      |
| Charging Algorithm                    | 3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li) | 3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li) |
| Maximum PV Array Power                | 4000W*2                                                         | 5500W*2                                                         |
| Maximum PV Input Current              | 18A*2                                                           | 27A*2(40A max)                                                  |
| PV Array MPPT Voltage Range           | 90~450VDC (90~430VDC for parallel)                              | 90~450VDC (90~430VDC for parallel)                              |
| Maximum Solar Charge Current          | 120A                                                            | 150A                                                            |
| Maximum AC Charge Current             | 120A                                                            | 150A                                                            |
| Maximum Charge Current                | 120A                                                            | 150A                                                            |



Solar Power



Battery Storage



Backup Power



Smart Energy Management





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