



**EKOTEK**  
ENERGY

**HYBRID  
SOLAR INVERTER**

**4 kVA**

**5000W  
MAX PV POWER**

# PROPLUS INVERTER 4000

4kVA Hybrid Inverter with  
Inverter Protection Module



**3 YEAR  
WARRANTY**

## INVERTER PROTECTION MODULE



Undervoltage  
Protector  
63A

Surge  
Protector  
40KA

AC Breaker  
(AC Input)  
63A

AC Breaker  
(AC output)  
63A

Battery  
Breaker  
150A

PV Breaker  
25A

PV DC Surge  
Protector  
20-40KA



**3600W  
Pure Sine Wave**



**No Battery  
Operation**



**120A MPPT  
Charging**



**LCD  
Display**



**WIFI  
Communication**



**Built-in PV  
Combiner Box**



### Uncompromised Performance

Full-load continuous operation capability with <1% THD maintains 100% rated power output across 250C-550C operating range.

### Integrated System Reliability

All-in-one modular architecture eliminates interconnection losses, delivering 99.6% system stability across varying environmental conditions.

### Extended Service Life

Double-sided conformal coating (IPC-CC-830B compliant) provides comprehensive protection against moisture, dust, and corrosion, extending MTBF by 30%.

### Enhanced Thermal Management

Flat-type transformer design improves heat dissipation efficiency by 50%, ensuring stable operation under high-load conditions.



## BUILT-IN PROTECTION MODULE

### Inverter Protection Module



### All-in-One Solar Integration

Save Time & Money Built-in PV combiner box eliminates complex wiring, cutting installation steps by 50% and reducing system costs by 30% for instant energy independence.

### Military-Grade Shield Safety

Triple-layer protection with 63A voltage/current guardians + 40kA surge defense (AC/DC) – sleeps soundly during storms or grid chaos.

### Smart Power Fortress

Industrial-strength circuit breakers (150A battery/63A AC/25A PV) auto-detect threats, stopping disasters before they start.

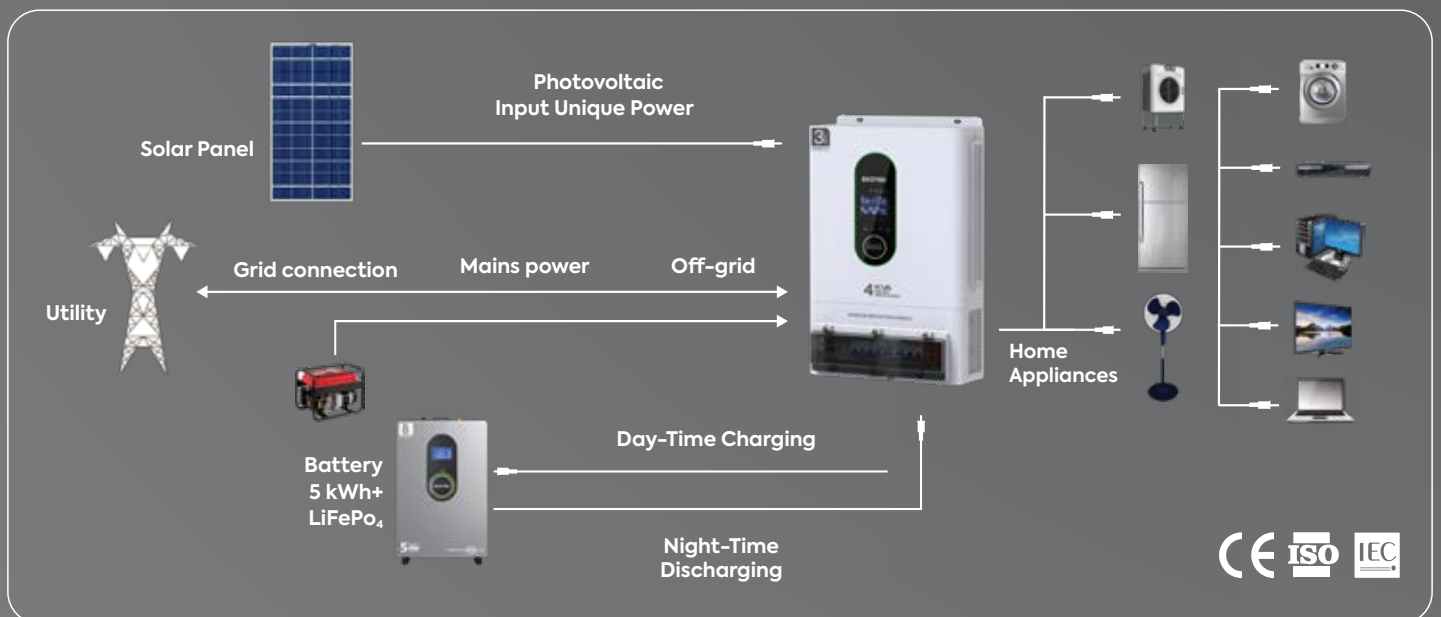


### ALSO AVAILABLE IN A BUNDLE



### Built-in Protection Module Parameters

|                        |         |
|------------------------|---------|
| Undervoltage Protector | 63A     |
| Surge Protector        | 40KA    |
| AC Breaker (AC Input)  | 63A     |
| AC Breaker (AC Output) | 63A     |
| Battery Breaker        | 150A    |
| PV Breaker             | 25A     |
| PV DC Surge Protector  | 20-40KA |





| PROPLUS INVERTER 4000            | 4kVA  |
|----------------------------------|---|
| <b>AC INPUT</b>                  |   |
| Rated Voltage                    | 208/220/230/240 VAC; L+N+PE   |
| Voltage Range                    | 90~280 ± 3 VAC(Normal Mode); 170~280 ± 3 VAC(UPS Mode)                              |
| Frequency                        | 50/60Hz (Auto Adaptive)   |
| <b>AC OUTPUT</b>                 |   |
| Rated Capacity                   | 4kVA / 3.6kW  |
| Surge Power                      | 5.7kVA  |
| Voltage                          | 208/220/230/240 VAC   |
| Power Factor                     | 1   |
| Frequency                        | 50/60Hz ± 0.1%  |
| Switch Time                      | 10ms (Normal Mode)/ 10ms (UPS Mode)   |
| Wave Form                        | Pure Sine Wave  |
| Overload Capacity (Battery Mode) | 60s@102%~110% load;<br>10s@110%~130% load;<br>3s@130%~150% load;<br>0.2s@>150% load |
| Max. Efficiency (Battery Mode)   | 92.7% @ 24VDC   |
| Parallel Quantity                | N/A   |
| <b>CHARGER (PV/AC)</b>           |   |
| Solar Charger Type               | MPPT  |
| Max. PV Input Current / Power    | 18A / 5000W   |
| MPPT Range @ Operating Voltage   | 40~450 VDC  |
| Max. PV Open Circuit Voltage     | 500 VDC   |
| Max. PV Charge Current           | 100 A   |
| Max. AC Charge Current           | 100 A   |
| Max. Charge Current (PV + AC)    | 100 A   |
| <b>BATTERY</b>                   |   |
| Nominal Voltage                  | 24 VDC  |
| Floating Charge Voltage          | 27 VDC  |
| Overcharge Protection            | 30.5 VDC  |
| Battery Type                     | Lithium and Lead-Acid   |
| <b>INTERFACE</b>                 |   |
| Display                          | LCD Display   |
| Communication                    | RS485 / RS232 / USB / Dry Contact   |
| Monitoring                       | WiFi (Optional)   |
| <b>GENERAL DATA</b>              |   |
| IP Rating                        | IP21  |
| Operating Temperature            | -10°C~50°C  |
| Relative Humidity                | 5%~95% (Non-Condensing)   |
| Storage Temperature              | -15°C~60°C  |
| Net Weight                       | 6.4kg   |
| Dimensions (W*D*H)mm             | T.B.A.  |
| Max. Operating Altitude          | 4000m (Derating above 1000m)  |