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Home Solar Battery Solution

# One Powers All
# EcoFlow OCEAN 2
# Three-Phase

6/8/10/12 kW

One Power All

# EcoFlow OCEAN 2
## Three-Phase

The next generation of EcoFlow's three-phase home energy system. Built on the all-new OCEAN 2 LFP battery packs, OCEAN 2 delivers higher system performance, smarter whole-home energy control, and faster, more reliable installation.

And it's designed to stay compatible with EcoFlow's previous-generation series—making upgrades and expansions simpler across projects.



## Key Highlights

| | | |
|---|---|---|
| Second-Generation Three-Phase Solar + Storage System<br>**All-in-one System Design** | All-New OCEAN 2 LFP Battery Packs<br>**10,000 Cell Cycles** | Flexible PV Design<br>**3 Independent MPPTs** |
| Overload Capacity<br>**Supporting 2x for 10s** | Ready for What's Next<br>**V2X -Ready** | Oms Seamless Switchover<br>**63A Whole-home Backup** |

# Built for every scenario. Perfect your complete energy journey.



Generation

## Optimised Solar Harvest. Tailored for Complex Rooftop Layouts

**Up to 24kW PV Input | 120V Low Start-up Voltage**

With a 120V low start-up voltage, OCEAN 2 begins generating earlier. Supporting up to 24kW PV input and three independent MPPTs, it enables flexible PV layouts for complex rooftops—maximising roof utilisation and solar yield.

Storage

## Long-Lasting Storage. Built on the New OCEAN 2 Battery Packs

**10,000 cell cycles | Up to 12 Battery Packs per Inverter**

Powered by the all-new OCEAN 2 LFP battery packs, OCEAN 2 is built for long operational lifecycles. With over 10,000 charge cycles, it delivers consistent storage performance for both daily use and long-term energy planning.



Power

## Stable Power Delivery. Optimised for Efficiency

### 3.4kW Battery Discharge Power
### 100% Unbalanced Load Support

With up to 3.4kW discharge per 5kWh battery, OCEAN 2 supports more appliances running at once within the same capacity. With 100% unbalanced load support, it maintains a stable three-phase output under demanding loads. Optimised for standby and light-load operation, it reduces energy loss over time—saving up to 6,000kWh* across its lifespan.

* Figures are based on internal testing and typical household usage scenarios. Actual results may vary.



Backup

## True Whole-Home Backup You Can Rely On

### Integrated Whole-home Backup (63A Bypass)
### 0ms Load-Side Switching

With 63A whole-home backup and 0ms switchover, OCEAN 2 restores power instantly—no extra backup box, no complex rewiring. It also supports third-party inverters and ATS-enabled generators for reliable backup through extended outages.

# Pre-Integrated Design. Simpler from Start to Finish.

From unpacking to commissioning, OCEAN 2 eliminates unnecessary components, wiring, and manual adjustments—streamlining on-site workflows and reducing installation errors.



Easy Site Selection

## Small Footprint. Big Flexibility.

Designed for diverse installation environments, OCEAN 2 fits tight indoor spaces, outdoor locations, and sites where floor placement isn't ideal.

- Compact battery design, only 279mm high.
- IP66-rated for outdoor installation
- Floor-mounted or wall-mounted for flexible site planning

Easy Handling

## Easier to Carry. Easier to Position.

With a lightweight, installer-friendly design, OCEAN 2 simplifies on-site handling.

- Just 46kg per battery pack
- Built-in handles for secure grip and safer lifting

Easy Installation

## Wiring Time Saved, Step by Step

**20+ min saved**
Clean, stackable design

**60+ min saved**
Integrated whole-home backup

**50+ min saved**
Built-in smart meter

**3 min only**
Fast commissioning via EcoFlow Pro App

Easy Maintenance

## 85% Troubleshooting Accuracy. Worry-Free Maintenance

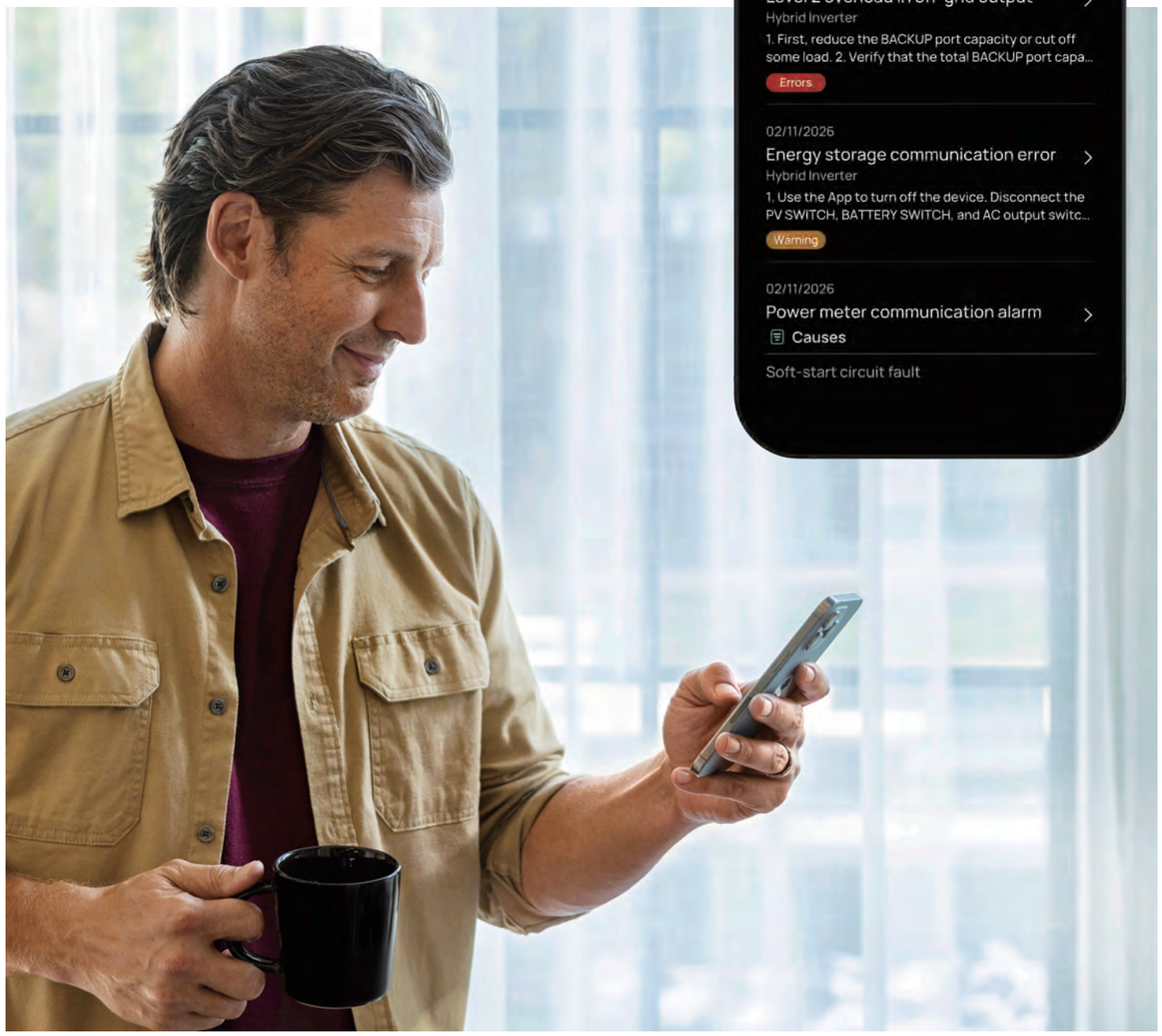
OCEAN 2 continuously monitors system performance through a cloud-based BMS and automatically optimises SOC strategies. Early alerts enable proactive intervention, while remote troubleshooting significantly reduces on-site visits.

**Remote**
Troubleshooting

**Cloud BMS**
Monitoring & early warning

**Automatic SOC**
Calibration & balancing

**AFCI**
Fault detection and shutdown



# One Ecosystem.
# Seamless Whole-Home Integration.

### 1 Energy Brain | 8 EcoFlow Products | N Smart Platform Integrations

With OCEAN 2 at the core, solar generation, storage, consumption, backup, and future energy extensions are unified into one intelligent energy platform. All components are managed through one-tap app control, enabling smarter optimisation, simpler operation, and scalable system growth—without added complexity.



matter · CPP Security Certified · Cloud API · Modbus · EEBUS · SG Ready

Shelly · tado° · tapo · ecobee · voltello together energy · Homey · Nest

## Save Up to 77.6% with Intelligent HEMS

Powered by EcoFlow HEMS, OCEAN 2 automatically optimises solar generation, storage, energy use, and grid interaction based on each home's unique energy profile.






Quality & Reliability

## Built to Withstand Harsh Conditions, Year After Year

Engineered for demanding environments, the bottom battery pack features IP66 protection with 72-hour* water-immersion tolerance.

OCEAN 2 operates reliably across extreme temperatures from –20°C to 55°C, delivering consistent performance in all conditions.

**Applies to the bottom battery module under specified test conditions.

Safety

## Ten Layers of Battery Protection, From Component to System

Designed with safety at its core, OCEAN 2 protects critical points across the entire energy path.
Continuous real-time monitoring helps prevent overheating, short circuits, and fire risks.
Early detection stops faults from escalating—delivering stable, secure energy storage for years.

# EcoFlow OCEAN 2 Hybrid Inverter Three-Phase

| Technical parameters | | EF HD-P3-6K0-S2<br>EF HD-P3-6K0-S2F | EF HD-P3-8K0-S2<br>EF HD-P3-8K0-S2F | EF HD-P3-10K0-S2<br>EF HD-P3-10K0-S2F | EF HD-P3-12K0-S2<br>EF HD-P3-12K0-S2F |
|---|---|---|---|---|---|
| PV input | Number of MPPT | 3 | | | |
| | Number of Strings per MPPT | 1 | | | |
| | Max. Input Power per MPPT(W) | 8000 | 8000 | 8000 | 8000 |
| | Max. Input Voltage[1] (V) | 1000 | | | |
| | PV Operating Voltage Range(V) | 50~1000 | | | |
| | MPPT Voltage Range at Rated Power(V) | 500~850 | | | |
| | MPPT Start-up Voltage(V) | 120 | | | |
| | Max. Total Input Power(W) | 12000 | 16000 | 20000 | 24000 |
| | Max. Input Current per MPPT(A) | 16 | | | |
| | Max. Short Circuit Current per MPPT(A) | 20 | | | |
| AC Input/ Output (On-Grid) | Rated Input Power(W) | 6000 | 8000 | 10000 | 12000 |
| | Max. Apparent Power(VA) | 6600 | 8800 | 11000 | 13200 |
| | Supported Power Grid Types | Supports TN-S,TN-C,TN-C-S,TT systems | | | |
| | Nominal Voltage(V) | L-L:380/400Vac; L-N: 220/230Vac; 3L+N+PE | | | |
| | Nominal Frequency(Hz) | 50/60Hz | | | |
| | Nominal Current | 8.7A@230V;<br>9.1A@220V; | 11.6A@230V;<br>12.2A@220V; | 14.5A@230V;<br>15.2A@220V; | 17.4A@230V;<br>18.2A@220V; |
| | Max. Output Current(A) | 10.7 | 14.3 | 17.8 | 21.4 |
| | Max. Input Current(A) | 63 | 63 | 63 | 63 |
| | Power Factor | 0.8 leading ~ 0.8 lagging | | | |
| | THDi at Full Load | Current Total Harmonic Distortion ≤3% | | | |
| AC Output (Off-Grid) | Nominal Output Power(W) | 6000 | 8000 | 10000 | 12000 |
| | Nominal output voltage(V) | 50/60Hz; L-L:380/400Vac; L-N: 220/230Vac; 3L+N+PE | | | |
| | Nominal output frequency(Hz) | 50/60Hz | | | |
| | Nominal output current | 8.7A@230V;<br>9.1A@220V; | 11.6A@230V;<br>12.2A@220V; | 14.5A@230V;<br>15.2A@220V; | 17.4A@230V;<br>18.2A@220V; |
| | Off-grid THDu | ≤2% | | | |
| Parallel Installation | Maximum on-grid capacity[2] | Up to 5 cascaded inverters | | | |
| | Maximum off-grid capacity | Up to 2 cascaded inverters | | | |
| Battery Input/ Output | Rated Voltage(V) | 800V | | | |
| | Voltage Range(V) | 720~960 | | | |
| | Battery Capacity | Up to 12 Battery Modules | | | |
| | Communication method | CAN | | | |
| Efficiency | Max. efficiency | 97.8% | | | |
| | Self Consumption (Light-load scenario)[3](W) | 50 | | | |

| | | |
|---|---|---|
| Protection | Grid-to-Off-grid Switching Time[4](ms) | 0 |
| | Off-grid-to-Grid Switching Time[4](ms) | 0 |
| | GFCI | Yes |
| | AFCI | Yes |
| | PV Insulation Resistance Detection | Yes |
| | Anti-islanding Protection | Yes |
| | PV Reverse Polarity Protection | Yes |
| | Emergency Power Off (EPO) | Yes |
| | DC Surge Protection | Type II |
| | AC Surge Protection | Type II |
| | AC Overcurrent Protection | Yes |
| | AC Short Circuit Protection | Yes |
| | AC Overvoltage Protection | Yes |
| General | Relative Humidity | 0% ~ 100% |
| | Operating Temperature Range | -20℃~60℃<br>>40℃ derating |
| | Storage Temperature(℃) | -30℃~60℃ |
| | Operating Altitude(m) | 3000, >2000 derating |
| | Ingress Protection Rating | IP66 |
| | Communication Method | Bluetooth, WiFi, RS485, CAN |
| | User Interface | LED&APP |
| | Weight(kg) | Approx. 36.5 |
| | Dimension (W×D×H) (mm) | 680×203×406.5 |
| | Environmental Category | Outdoor/Indoor |
| | Mounting Method[5] | Floor Stand/Wall Mounted |
| | Anti-theft | Supported |
| | Country of Manufacture | China |
| Compliance | | IEC/EN 62109-1, IEC/EN 62109-2, AS 60947.3, ISO 4892-4<br>EN 300 328, EN 301 893, EN 301 489-1, EN 301 489-17 V3.3.1, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN IEC 61000-3-11, EN 61000-3-12, EN 55011, EN 62920, EN IEC 62311, EN 50665 AS/NZS 4777.2<br>VDE-AR-N 4105, EN 50549-1, EN50549-10, AS/NZS 4777.2, OVE-Richtlinie R, TOR Erzeuger (for Type A), PTPiREE (Type A), PPDS, CEI 0-21, G98, G99, G100, G98 NI, G99 NI, TR3.3.1 UNE 217001, UNE 217002, IEC 62116, NTS(Type A), C10/C11, SI 4777.2, Portaria n.° 73/2020 |

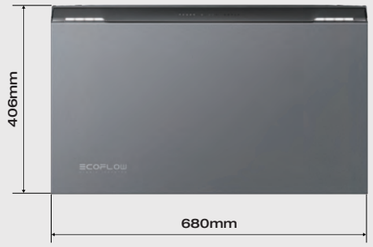
1. PV input voltage should not exceed the specified maximum value. Exceeding this limit may trigger system protection or affect normal operation.
2. In grid-connected parallel operation, load-side current is limited by the maximum input current rating of the grid port.
3. 50±1W indicates the system self-consumption measured under light-load conditions (<300W total load) in a laboratory environment.
4. The 0 ms transfer time applies under the following conditions:compliance with local grid regulations, in the open-circuit state of the power grid, total load power does not exceed the rated output backup power, stable grid conditions.
5. Maximum 3 battery packs supported for wall-mounted installation.

# EcoFlow OCEAN 2 LFP Battery 5kWh

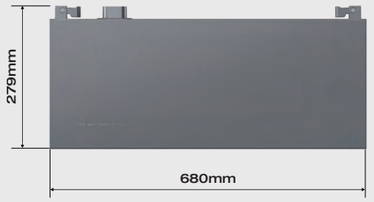
| Technical parameters | | EF BD-5-S2 |
|---|---|---|
| Performance | Battery Nominal Capacity(kWh) | 5.02 |
| | Battery Cell Type | $LiFePO_4$ |
| | Nominal Charging Power(kW) | 2.5 |
| | Nominal Discharging Power(kW) | 3.4 |
| | Nominal Voltage(V) | 400 / 800 |
| | Operating Voltage Range(V) | 360-520V / 720-960 |
| General | Dimension(WxDxH) (mm) | 680 × 196 × 279 |
| | Weight (kg) | 46 |
| | Installation | Floor Stand: A stack of up to 6 batteries<br>Wall Mounted: A stack of up to 3 batteries |
| | Operating Temperature[1] (°C) | -20°C ~ 55°C[2] |
| | Storage Temperature (°C) | -25°C ~ 60°C |
| | Max. Operating Altitude[2] (m) | 3000 |
| | Relative Humidity | 0% ~100% |
| | Cooling Method | Natural Cooling |
| | Ingress Protection Rating | IP66 |
| | Anti-theft | Supported |
| | Communication method | CAN |
| | Protection | Over-charge/over-discharge protection, over-voltage/under-voltage protection, over-current protection, short-circuit protection, reverse-polarity protection, temperature protection, thermal-runaway protection, leakage-current protection, insulation protection, over-pressure protection, automatic power-off protection, emergency shutdown |
| Compliance | | IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, VDE-AR-E 2510-50, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3 |

1. Power may be derated when the temperature exceeds 40 °C.
2. Power may be derated above 2000 m.

**EcoFlow OCEAN 2 Hybrid Inverter**




**EcoFlow OCEAN 2 LFP Battery (5kWh)**




## Accessories



**Emergency Stop Button**

Designed to achieve rapid shutdown to cut off the power supply of the entire system.

## EcoFlow App and Web Portal

### EcoFlow App and Web Portal for End-Users

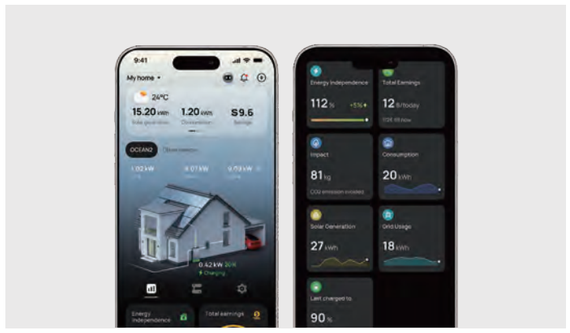
-Intuitive power flow monitoring
-Say goodbye to high energy bills with Self-Powered Mode
-Viewing power generation and consumption data through an application
-Customise the system's working mode and parameters

Scan QR code to download

### EcoFlow Pro App and Web Portal for Installers

-Ultra-fast 3-step commissioning process
-Comprehensive map view of authorised systems
-Comprehensive and detailed data to assist you in system fault analysis

Scan QR code to download





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