

A tall, grey, modular battery unit stands against a wall of vertical wooden slats. To the right, large glass doors reveal a modern living room interior with a sofa, a floor lamp, and a person sitting. The scene is set at dusk, with a warm, orange glow from the interior lights and the setting sun visible through the glass.

ECOFLOW

Home Solar Battery Solution

The Next Level All-in-One  
**EcoFlow OCEAN 2**  
Three-Phase

6/8/10/12/15 kW

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 | EF HD-P3-15K-G2<br>EF HD-P3-15K-G2F |
|------------------------------|------------------------------------------------------------|--------------------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|
| PV Input                     | Number of MPPTs                                            | 3                                                |                                     |                                       |                                       |                                     |
|                              | Number of Strings per MPPT                                 | 1                                                |                                     |                                       |                                       |                                     |
|                              | Max. Input Power per MPPT(W)                               | 8000                                             |                                     |                                       |                                       |                                     |
|                              | Max. Input Voltage <sup>1</sup> (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                                 | 24000                               |
|                              | Max. Input Current per MPPT(A)                             | 16                                               |                                     |                                       |                                       | 20                                  |
|                              | Max. Short Circuit Current per MPPT(A)                     | 20                                               |                                     |                                       |                                       | 25                                  |
| AC Input/Output<br>(On-Grid) | Rate Input Power(W)                                        | 6000                                             | 8000                                | 10000                                 | 12000                                 | 15000                               |
|                              | Rated Output Apparent Power(VA)                            | 6600                                             | 8800                                | 11000                                 | 13200                                 | 15000                               |
|                              | Max. Output Apparent Power(VA)                             | 6600                                             | 8800                                | 11000                                 | 13200                                 | 15000                               |
|                              | Supported Power Grid Types                                 | Supports TN-S,TN-C,TN-C-S,TT systems             |                                     |                                       |                                       |                                     |
|                              | Nominal Voltage(V)                                         | 50/60Hz, L-L:380/400Vac; L-N:220/230Vac; 3L+N+PE |                                     |                                       |                                       |                                     |
|                              | Nominal 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             | 21.7A@230V;<br>22.7A@220V           |
|                              | Max. Output Current(A)                                     | 10.7                                             | 14.3                                | 17.8                                  | 21.4                                  | 25                                  |
|                              | Max. Input Current(A)                                      | 63                                               |                                     |                                       |                                       |                                     |
|                              | Power Factor                                               | 0.8 leading ~ 0.8 lagging                        |                                     |                                       |                                       |                                     |
|                              | THDi at Full Load                                          | Current Total Harmonic Distortion ≤3%            |                                     |                                       |                                       |                                     |
| AC Output<br>(Off-Grid)      | Rated Output Apparent Power(VA)                            | 6000                                             | 8000                                | 10000                                 | 12000                                 | 15000                               |
|                              | Nominal Output Power(W)                                    | 6000                                             | 8000                                | 10000                                 | 12000                                 | 15000                               |
|                              | Nominal Output Voltage(V)                                  | 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             | 21.7A@230V;<br>22.7A@220V           |
|                              | Power Factor                                               | 0.8 leading ~ 0.8 lagging                        |                                     |                                       |                                       |                                     |
|                              | Off-grid THDu                                              | ≤2%                                              |                                     |                                       |                                       |                                     |
| Battery Input/<br>Output     | Rated Voltage(V)                                           | 800                                              |                                     |                                       |                                       |                                     |
|                              | Voltage Range(V)                                           | 720~960                                          |                                     |                                       |                                       |                                     |
|                              | Battery Capacity                                           | Up to 12 Battery Modules                         |                                     |                                       |                                       |                                     |
|                              | Communication Method                                       | CAN                                              |                                     |                                       |                                       |                                     |
| Efficiency                   | Max. efficiency                                            | ≤98%                                             |                                     |                                       |                                       |                                     |
|                              | Self Consumption<br>(Light-load scenario) <sup>2</sup> (W) | 50                                               |                                     |                                       |                                       |                                     |

|            |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection | Grid-to-Off-grid Switching Time <sup>3</sup> (ms) | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | Off-grid-to-Grid Switching Time <sup>3</sup> (ms) | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | GFCI                                              | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | AFCI                                              | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | PV Insulation Resistance Detection                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | Anti-islanding Protection                         | Slip Mode Frequency Shift                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | 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°C~60°C<br>>40°C derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | Storage Temperature(°C)                           | -30°C~60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            | 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 (WxDxH) (mm)                            | 680×203×406.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | Environmental Category                            | Outdoor/Indoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|            | Mounting Method <sup>4</sup>                      | Floor Stand/Wall Mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | Inverter Topology                                 | Non-Isolated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | Anti-theft                                        | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Compliance | 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,<br>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<br>VDE-AR-N 4105, EN 50549-1, EN 50549-10, AS/NZS 4777.2, OVE-Richtlinie R, TOR Erzeuger (for Type A),<br>PTPIREE (Type A), PPDS, CEI 0-21, G98, G99, G100, G98 Ni, G99 Ni, TR3.3.1 UNE 217001, UNE 217002,<br>IEC 62116, NTS (Type A), C10/C11, SI 4777.2 |

1. PV input voltage should not exceed the specified maximum value. Exceeding this limit may trigger system protection or affect normal operation.

2. 50±1W indicates the system self-consumption measured under light-load conditions (<300W total load) in a laboratory environment.

3. 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.

4. Maximum 3 battery packs supported for wall-mounted installation.

## EcoFlow OCEAN 2 LFP Battery

| Technical parameters |                                             | EF OCEAN 2 LFP Battery 8kWh<br>EF BD-8-S2A                                                                                                                                                                                                                                                                                                                                 | EF OCEAN 2 LFP Battery 5kWh<br>EF BD-5-S2                                                                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Performance          | Battery Nominal Capacity(kWh)               | 8.03                                                                                                                                                                                                                                                                                                                                                                       | 5.02                                                                                                                                                                                                                                                                                                                                              |
|                      | Battery Usable Capacity(kWh) <sup>1</sup>   | 8.03                                                                                                                                                                                                                                                                                                                                                                       | 5.02                                                                                                                                                                                                                                                                                                                                              |
|                      | Battery Cell Type                           | LiFePO <sub>4</sub>                                                                                                                                                                                                                                                                                                                                                        | LiFePO <sub>4</sub>                                                                                                                                                                                                                                                                                                                               |
|                      | Nominal Charging Power(kW)                  | 4.1                                                                                                                                                                                                                                                                                                                                                                        | 2.5                                                                                                                                                                                                                                                                                                                                               |
|                      | Nominal Discharging Power(kW)               | 4.1                                                                                                                                                                                                                                                                                                                                                                        | 3.4                                                                                                                                                                                                                                                                                                                                               |
|                      | Maximum Discharging Power <sup>2</sup> (kW) | 6.4                                                                                                                                                                                                                                                                                                                                                                        | 4.08                                                                                                                                                                                                                                                                                                                                              |
|                      | Nominal Voltage(V)                          | 400 / 800                                                                                                                                                                                                                                                                                                                                                                  | 400 / 800                                                                                                                                                                                                                                                                                                                                         |
|                      | Operating Voltage Range(V)                  | 360-520 / 720-960                                                                                                                                                                                                                                                                                                                                                          | 360-520 / 720-960                                                                                                                                                                                                                                                                                                                                 |
| General              | Dimension(WxDxH)(mm)                        | 680 x 196 x 378                                                                                                                                                                                                                                                                                                                                                            | 680 x 196 x 279                                                                                                                                                                                                                                                                                                                                   |
|                      | Weight(kg)                                  | 67.5                                                                                                                                                                                                                                                                                                                                                                       | 46                                                                                                                                                                                                                                                                                                                                                |
|                      | Installation                                | Floor Stand: A stack of up to 5 batteries<br>Wall Mounted: A stack of up to 3 batteries                                                                                                                                                                                                                                                                                    | Floor Stand: A stack of up to 6 batteries<br>Wall Mounted: A stack of up to 3 batteries                                                                                                                                                                                                                                                           |
|                      | Operating Temperature <sup>3</sup> (°C)     | -20~ 55                                                                                                                                                                                                                                                                                                                                                                    | -20~ 55                                                                                                                                                                                                                                                                                                                                           |
|                      | Storage Temperature(°C)                     | -25~ 60                                                                                                                                                                                                                                                                                                                                                                    | -25~ 60                                                                                                                                                                                                                                                                                                                                           |
|                      | Max. Operating Altitude <sup>4</sup> (m)    | 3000                                                                                                                                                                                                                                                                                                                                                                       | 3000                                                                                                                                                                                                                                                                                                                                              |
|                      | Relative Humidity                           | 0% ~100%                                                                                                                                                                                                                                                                                                                                                                   | 0% ~100%                                                                                                                                                                                                                                                                                                                                          |
|                      | Cooling Method                              | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                                   |
|                      | Ingress Protection Rating                   | IP66                                                                                                                                                                                                                                                                                                                                                                       | IP66                                                                                                                                                                                                                                                                                                                                              |
|                      | Anti-theft                                  | Supported                                                                                                                                                                                                                                                                                                                                                                  | Supported                                                                                                                                                                                                                                                                                                                                         |
|                      | Battery Heating                             | Supported                                                                                                                                                                                                                                                                                                                                                                  | Supported                                                                                                                                                                                                                                                                                                                                         |
|                      | Communication method                        | CAN                                                                                                                                                                                                                                                                                                                                                                        | CAN                                                                                                                                                                                                                                                                                                                                               |
|                      | Country of Manufacture                      | China                                                                                                                                                                                                                                                                                                                                                                      | China                                                                                                                                                                                                                                                                                                                                             |
|                      | 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, Water Ingress Detection | 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, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3, SA TS 5398                                                                                                                                                                                                                     | IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3                                                                                                                                                                                                        |

1. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.

2. In a laboratory environment at 25°C ambient and device temperature with OCEAN 2 Hybrid Inverter, the discharge time at this power is no more than 30 minutes for Ocean 2 LFP 8kWh and 20 minutes for Ocean 2 LFP 5kWh. Under different usage conditions, actual performance may vary.

3. Power may be derated when the temperature exceeds 40°C.

4. Power may be derated above 2000 m.

## Contact EcoFlow



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