

EcoFlow PowerOcean (Single-Phase)

Solar Battery Storage Solution

EcoFlow PowerOcean (Single-Phase) redefines home energy storage with advanced safety, LFP battery technology, a fire prevention module, and an IP65-certified design. Offering a 15-year warranty, with batteries expandable up to 60kWh through cascading three inverters, EcoFlow PowerOcean is a secure, scalable solution that future proofs your home.



For installers

EcoFlow Pro Web Portal
<https://portal.ecoflow.com/pro/au>
 Mail to
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EcoFlow Pro App

For users

EcoFlow Web Portal
<https://portal.ecoflow.com/user/au>



EcoFlow App

EcoFlow PowerOcean LFP Battery

| Number of Battery Packs | | EF BD-5.1-S1 EF BD-B-S1 | EF BD-10.2-S1 EF BD-B-S1 | EF BD-15.3-S1 EF BD-B-S1 | EF BD-20.4-S1 EF BD-B-S1 |
|---------------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------|
| Performance | Battery Nominal Capacity (kWh) | 5.1 | 10.2 | 15.3 | 20.4 |
| | Battery Usable Capacity (kWh)*2 (100% Depth of Discharge) | 5.1 | 10.2 | 15.3 | 20.4 |
| | Max. Discharge Power (W) | 3300 | 6600 | 9900 | 13200 |
| | Max. Charge Power (W) | 2500 | 5000 | 7500 | 10000 |
| | Nominal Voltage (V) | 800 | | | |
| | Operating Voltage Range (V) | 720-960 | | | |
| | Battery Short Circuit current (A) | 200A for 300 us | 400A for 300 us | 600A for 300 us | 800A for 300 us |
| | Battery Maximum Discharge Current (A) | 4.4 | 8.8 | 13.2 | 17.6 |
| | Battery Maximum Charge Current (A) | 3.3 | 6.6 | 9.9 | 13.2 |
| | Rated DC Power (kW) | Discharge: 3.3 Charge: 2.5 | Discharge: 6.6 Charge: 5.0 | Discharge: 9.9 Charge: 7.5 | Discharge: 13.2 Charge: 10 |
| Battery Cell Type | LiFePO4 | | | | |
| Compliance | Certificates | RCM MARK | | | |
| | Safety Standard | IEC 62619, IEC 62040-1, IEC 62477-1, ISO13849 | | | |
| | Delivery Standard | UN38.3 | | | |
| | EMC | IEC 61000-6-1/3 | | | |
| General | Dimension (mm) (inverter-included) | 680×183×732 (±1) | 680×183×1129 (±1) | 680×183×1525 (±1) | 680×183×1920 (±1) |
| | | 680×183×424 (±1) (EF BD-5.1-S1 x 1) | | | |
| | Weight (kg) (inverter-included) | 80.7 | 136.2 | 191.7 | 247.2 |
| | | 55.5 (EF BD-5.1-S1 x 1) | | | |
| | Installation | Floor Stand/Wall Mounting | | | |
| | Operating Temperature (°C) | -20 to 50 | | | |
| | Max. Operating Altitude (m) | 3000 | | | |
| | Communication Method | CAN | | | |
| | Cooling Method | Natural Convection | | | |
| | Noise Emission (dB) | ≤35*1 | | | |
| | Relative Humidity | 0%-100% (Condensing) | | | |
| Active Aerosol Fire Prevention Module | Integrated | | | | |
| Protection Level | IP65 | | | | |
| Protective Class | I | | | | |

*2 To maintain optimal battery performance in low-temperature environments, the depth of discharge (DoD) may vary with actual temperature. This is a normal fluctuation.

EcoFlow PowerOcean Hybrid Inverter

| Technical parameters | | EF HD-P1-3K-S1-A | EF HD-P1-5K-S1-A | EF HD-P1-6K-S1-A |
|--|---|--|------------------|------------------|
| DC Input (PV) | Maximum PV Power (kW) | 9 | 11 | 12 |
| | Maximum Input Voltage (V) | 600 | | |
| | Mppt Voltage Range (V) | 90V-520 | | |
| | Maximum Input Current per MPPT (A) | 18 (single PV input), 16 (dual PV input) | | |
| | Maximum Short Circuit Current per MPPT (A) | 20 | | |
| | Backfeed Current to the PV Array (A) | 0 | | |
| | Number of MPPTs | 2 | | |
| | Overvoltage Category | II | | |
| DC Input (Battery) | Rated Voltage (V) | 790 | | |
| | Maximum Voltage (V) | 800 | | |
| | Rated Current (A) | 7.6 | | |
| | Maximum Current (A) | 7.6 | 7.6 | 8.4 |
| | Maximum Battery Capacity (kWh) | 20.4 | | |
| AC Input | Grid Connection | L+N+PE | | |
| | Overvoltage Category | III | | |
| | Rated Input Power (W) | 3000 | 5000 | 6000 |
| | Maximum Apparent Power (VA) | 3000 | 5000 | 6000 |
| | Rated Input Voltage (V) | 220/230/240, L+N+PE | | |
| | Maximum Input Current (A) | 16 | 26.7 | 32 |
| | Nominal Frequency (Hz) | 50/60 | | |
| | AC Output (On-grid) | Grid Connection | L+N+PE | |
| Overvoltage Category | | III | | |
| Rated Output Power (W) | | 3000 | 5000 | 6000 |
| Maximum Apparent Power (VA) | | 3000 | 5000 | 6000 |
| Rated Output Voltage (V) | | 220/230/240, L+N+PE | | |
| Rated Output Current (A) | | 13.1 | 21.7 | 26.1 |
| Maximum Output Current (A) | | 15 | 25 | 30 |
| Nominal Frequency (Hz) | | 50/60 | | |
| Total Harmonic Distortion (At Rated Power) | | ≤5% | ≤3% | ≤3% |
| Power Factor | -0.8...1...+0.8 | | | |
| AC Output (Backup load) | Maximum Output Power (VA) | 3000 | 5000 | 6000 |
| | Nominal Output Voltage (V) | 220/230/240, L+N+PE | | |
| | Nominal Frequency (Hz) | 50/60 | | |
| | Maximum Output Current (A) | 16 | 26.7 | 32 |
| | Rated Output Current (A) | 13.1 | 21.7 | 26.1 |
| Efficiency | Maximum Efficiency | >96% | >96.5% | >96.5% |
| | European Weighted Efficiency | >95% | >96% | >96% |
| Protection | GFCI | Integrated | | |
| | AFCI | Integrated | | |
| | Insulation Resistance Detection | Integrated | | |
| | Anti-Islanding Protection | Slip mode Frequency Shift | | |
| | PV Reverse Polarity Protection | Integrated | | |
| | AC Overcurrent Protection | Integrated | | |
| | AC Short-Circuit Protection | Integrated | | |
| | AC Overvoltage Protection | Integrated | | |
| Protective Class | I | | | |
| Compliance | Certificates | CE/CB/DEKRA MARK | | |
| | Safety Standard | IEC/EN62109-1, IEC/EN62109-2 | | |
| | Grid-Tied Standards | G98, G99, G100, VDE-AR-N 4105, CEI 0-21, UTE C15-712-1, VDE 0126-1-1, EN 50549-1, C10/11, NTS631, UNE 217001, UNE 217002, PPDS, PTPIREE, PSE, NC RfG, ORDINANCE No.140, NRS 097-2-1, AS 4777.2 | | |
| | EMC | EN/IEC 61000-6-1/2/3/4, IEC 61000-4-16/18/29, IEC 61000-2-2, EN 300328, EN 301489-1, EN 301489-17, EN IEC 62311 | | |
| General | Cascading | Up to 60kWh battery capacity* ³ | | |
| | Topology | Non-isolated | | |
| | Ingress Protection Rating | IP65 | | |
| | Operating Temperature Range (°C) | -20 to 50 (derating when the temperature is above 40 or below 0) | | |
| | Storage Temperature Range (°C) | -30 to 60 | | |
| | Operating Humidity | 0%-100% (Condensing) | | |
| | Maximum Operating Altitude (m) | 3000 (derating above 2000) | | |
| | Weight (kg) | 21.5 | | |
| | Dimensions (WxDxH) (mm) | 679.6x182.7x280 (without IOT & Wi-Fi module) | | |
| | Noise Emission (dB) | 40* ¹ | | |
| | Self-Consumption at Night (W) | <30 | | |
| | Cooling Method | Natural convection | | |
| | Communication Method | RS485 & CAN & Wi-Fi & Bluetooth & WAN & 4G | | |
| | Wi-Fi Frequency Range, Maximum Output Power | 2400 MHz-2483.5 MHz, 17 dBm | | |
| | Bluetooth Frequency Range, Maximum Output Power | 2400 MHz-2483.5 MHz, 8 dBm | | |
| | Pollution Degree | PD3 | | |
| Environmental Category | Outdoor/Indoor | | | |

*¹ Noise emission value measured under laboratory conditions: ambient temperature 25°C, free-field acoustic environment, measurement position 1m directly in front of the equipment. Actual noise levels may vary depending on load conditions, installation methods and environmental reflection characteristics. This data is only applicable to the declared test conditions.

*² For a total battery capacity of 60kWh, 3 hybrid inverters are required. One hybrid inverter can support a maximum of 20kWh.

Please be advised that EcoFlow reserves the right to modify the design, components, and specifications of its products at any time without prior notice or obligation. The actual product details and final design may vary from those shown or described in this brochure.