

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>
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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)*1 (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)
	Weight (kg) (inverter-included)	680×183×424 (±1) (EF BD-5.1-S1 x 1)			
		80.7	136.2	191.7	247.2
	Installation	Floor Stand/Wall Mounting			
	Operating Temperature (°C)	-20 to 50			
	Max. Operating Altitude (m)	3000			
	Communication Method	CAN			
	Cooling Method	Natural Convection			
	Relative Humidity	0%-100% (Condensing)			
	Active Aerosol Fire Prevention Module	Integrated			
Protection Level	IP65				
Protective Class	I				

*1 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)	90-520		
	Start-Up Voltage (V)	100		
	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		
DC Input (Battery)	Overvoltage Category	II		
	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	Battery Type	LiFePO ₄		
	Overvoltage Category	II		
	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
AC Output (On-grid)	Nominal Frequency (Hz)	50/60		
	Grid Connection	L+N+PE		
	Overvoltage Category	III		
	Rated Output Power (W)	3000	5000	6000
	Rated Apparent Power Output to Utility Grid (VA)	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		
AC Output (Backup load)	Total Harmonic Distortion (At Rated Power)	≤5%	≤3%	≤3%
	Power Factor	-0.8...1...+0.8		
	Rated Output Apparent 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
Efficiency	Rated Output Current (A)	13.1	21.7	26.1
	Overvoltage Category	III		
Protection	Power Factor	-0.8...1...+0.8		
	Maximum Efficiency	>96%	>96.5%	>96.5%
	European Weighted Efficiency	>95%	>96%	>96%
	GFCI	Integrated		
	AFCI	Integrated		
	Insulation Resistance Detection	Integrated		
	PV Reverse Polarity Protection	Integrated		
	AC Overcurrent Protection	Integrated		
Compliance	AC Short-Circuit Protection	Integrated		
	AC Overvoltage Protection	Integrated		
	Protective Class	I		
	Certificates	RCM MARK		
General	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/NZS 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		
	Cascading	Up to 60kWh battery capacity*2		
General	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)		
	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		
Country of Manufacture	Made in China			
Compatible Battery Models	EF BD-5.1-S1,EF BD-10.2- S1,EF BD-15.3-S1, EF BD-20.4-S1.			

*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.