All-in-One PV and Energy Storage System

FLEXO 50

Versatile Applications

- Suitable for solar self-consumption, backup power, diesel generator replacement, and VPP scenarios.
- Supports seamless on/off-grid switching ≤10ms.

All-in-One Design

- Integrated PCS, EMS, and battery clusters in a clean and compact design.
- Footprint of only 1.2 m^2 with a height of 1.4 m.

Easy Installation

- Delivered as a pre-assembled cabinet to minimize on-site work.
- Only AC input and load connections required.
- Easy to transport by forklift, with front and side access doors.
- Supports back-to-wall installation for flexible site layout.

High Scalability

- Single cabinet supports 23–53.7 kWh capacity range, compatible with 0.5C applications.
- Supports up to 6 cabinets in off-grid parallel operation, covering 30–180 kW power range.

About Ecosolex

As a sub-brand of Shenzhen Topband Co., Ltd., Ecosolex delivers advanced solar, storage, and charging solutions for residential, commercial, and industrial use. Backed by Topband's decades of expertise, over 2,000 research professionals, and more than 3,200 patents, we provide reliable, safe, and sustainable energy systems. With 15 global production and R&D bases, Ecosolex empowers customers worldwide to achieve energy independence and contribute to a greener, more sustainable future.

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BATTERY	
Rated Energy	53.7kWh
Usable Energy	≥50kWh
Battery Nominal Voltage	537V DC
Battery Operating Voltage Range	470.4~613.2V
Battery Nominal Capacity	100Ah
AC INPUT & OUTPUT (ON-GRID)	
Rated Output Power	30kW
Rated Output Current	45.6A(AC380V)/43.3A(AC400V)
Maximum Output Power	33kW
Maximum Output Current	45.6A(AC380V)/43.3A(AC400V)
Rated AC Voltage	400/380V AC
Rated Frequency	50/60Hz
System / Grid Connection Type	3L+N+PE
AC OUTPUT (BACK-UP)	
Back-up Rated Output Power	30kW
Back-up Rated Output Current	45.6A(AC380V)/43.3A(AC400V)
Back-up Rated AC Voltage	400/380V AC
Rated Frequency	50/60Hz
On/Off-grid Switching Time	≤10 ms
PV INPUT	
Max. PV Input Power	60KW
MPPT Voltage Range	150-850V
Max. Input Current per MPPT Tracker	40A
Number of MPPT Trackers	3
PV Strings per MPPT Tracker	2/2/2
OTHERS	
Ingress Protection Rating (IP)	IP55
Application Environment	Outdoor
Operating Temperature	-20~55°C(>45°C derating)
Operating Humidity	0~95% RH, non-condensing
Cooling Method	Air cooling
Altitude	≤3000m, (>2000m derating)
Corrosion Protection Level	C4
Noise Level	<75dB
Dimensions	1020W*1200D*1400H
Weight	≈1000kg
Fire Protection	Aerosol
Transportation Method	Pre-assembled unit transport
Certifications	IEC62619/CE/UN38.3