

Outdoor Solar Energy Storage Solution

EverPower Outdoor Series

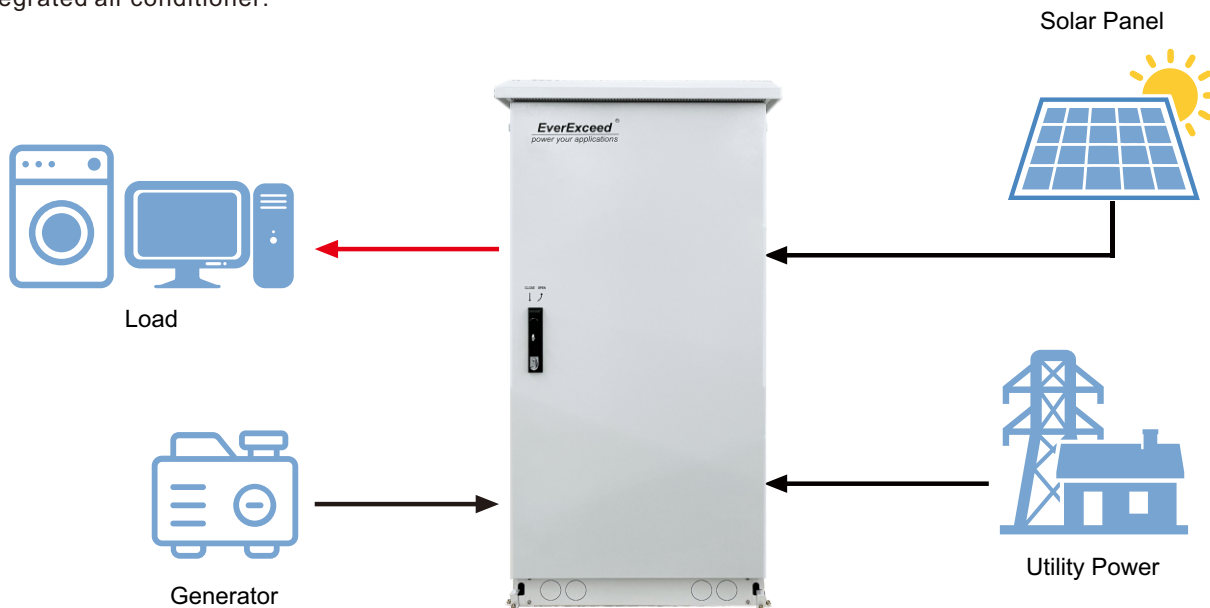
For Remote area, oil and gas, island, outdoor BTS station etc. applications

Are you looking for a power solution for your remote area, island, desert etc. applications where the grid connection is not available and you need to set it up under the open Sun without proper indoor facilities? If you have plenty of space to install solar panels and can get the best output from the Sun; EverExceed has the best Outdoor Off-grid energy storage solution for you.

EverExceed's Outdoor Solar Energy Storage solutions have been designed in a way to comply with requirements of Outdoor applications like oil and gas, island, off-grid remote area etc. It is a solution for off-grid applications which includes power backup, peak shaving, load shifting, PV self-consumption, PV smoothing and etc. It comes with an intelligent ventilation system and it has the option to add an integrated air conditioner.

Application

- Off-grid or poor grid and remote area.
- Sunshine duration fluctuates greatly areas.
- Systems requiring high reliability requirement.
- Modernization of legacy DG powered sites with limited footprint.
- Require environment protection area.



Advantage and benefits of the whole system:

- IP55 protection grade to ensure long life in outdoor use
- Minimizes OPEX and CO2 footprint.
- Diesel generator runtime reduction of 80% or better.
- Easy installation, transportation and low cost due to compact size.
- Energy efficient – no cooling of batteries and controllers required.
- More reliable electric supply of 24/7.
- Maximum usage of solar energy with leading algorithm design.
- Excellent TCO performance with optimized PV & DG combination.
- Low maintenance, repair replacement, fuel costs and remote monitoring.
- Expected lifetime: ≥10 years.

Specifications:

Model	EPO5K-5E	EPO5K-10E	EPO5K-15E	EPO5K-20E	
System Specification					
Rated AC Output Power	5000VA/5000W				
Surge AC Output Power	10000VA				
Energy Capacity Range	5.12kWh	10.24kWh	15.36kWh	20.48kWh	
Battery Type	Lithium iron phosphate battery				
Max. AC Charging Current	60A				
Max. PV Charging Current	80A				
Max. Total Charging Current	80A				
Operating Temperature	Charge:0°C to 50°C / Discharge: -20°C to 60°C				
Storage Temperature	-30°C to 70°C				
Remote Monitoring	WiFi & APP (Optional)				
Display	7" TFT LCD((Optional)				
Relative Humidity	0~95%(no condensation)				
Operating Altitude	2000m				
Protection Degree	IP55				
System Dimension	W	600mm	600mm	600mm	600mm
	D	600mm	600mm	600mm	600mm
	H	1300mm	1300mm	1700mm	1700mm
Weight	117kg	165kg	238kg	286kg	

Certification and Standards
 Certificates: CE, RoHS, UN38.3
 Standards: IEC62619, EN 61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3

PV String Input Specification	
Max. DC Input Power	5500W
Max. DC Input Voltage	500VDC
PV Operating Voltage Range	120 to 500VDC
MPPT Voltage Range	120 to 450VDC
Max. PV Charging Current	80A
Max. PV Input Current	22A

Inverter Specification	
Rated AC Output Power	5000W
Surge AC Output Power	10000VA
Battery Recommended Voltage	48VDC
AC Input Voltage	90Vac to 280Vac
AC Output Voltage	230Vac(120Vac optional)
Rated Frequency	50 / 60Hz
Max. AC Charging Current	60A
Power Factor	1.0
AC Output Wave Form	Pure Sine Wave
Transfer Time	< 10ms
Output THDi	<3%
Max. Conversion Efficiency	≥94%

Battery Specification				
Battery Module Model	EP-48100			
Battery Module Voltage	51.2V			
Battery Module Capacity	100Ah			
Module Quantity	1	2	3	4
Total Energy Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Cycle Life	> 6000 cycles@80% DOD			