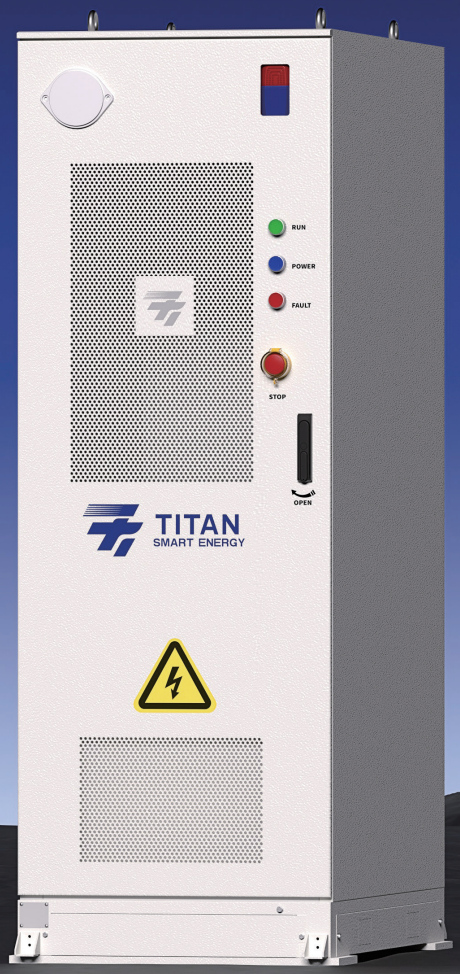
TITAN
SMART ENERGY

Shenzhen Titan Smart Energy Technology Co., Ltd.

Air-Cooled

Power-Bank-35K/80HB
Power-Bank-45K/100HB
Power-Bank-50K/120HB

Hybrid Energy Storage System



Versatile Scenario Adaptability

- 150%–200% PV Oversizing, Dual PV Inputs
- Diesel Generator Hybrid Support
- Seamless grid transition in ⩽20 ms

Smart Operation and Maintenance

- 10-inch local display
- 24/7 monitoring and early warning
- Supports microgrids and diverse application scenarios

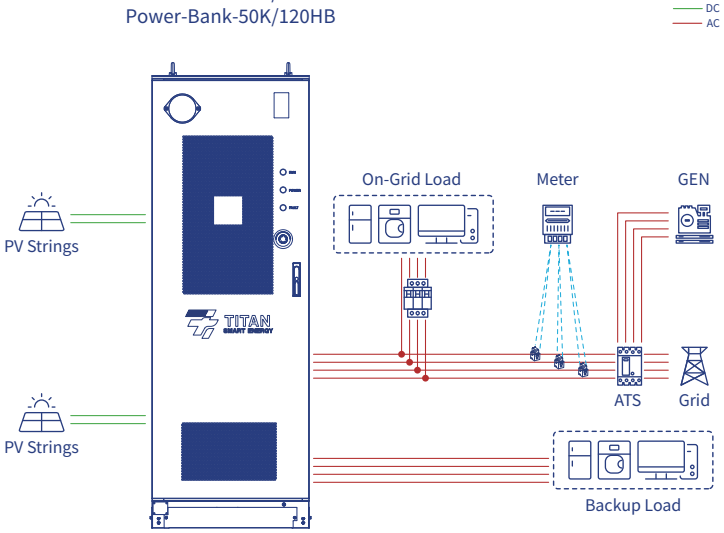
Safe and Efficient

- Cycle life > 8,000 times
- Multi-level fire protection design
- Intelligent temperature control design

Simple and User-Friendly

- 100 % three-phase imbalance
- Easy and quick installation
- Expandable modular design with flexible capacity options

Power-Bank-35K/80HB
Power-Bank-45K/100HB
Power-Bank-50K/120HB



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Specification	Models	Power-Bank-35K/80HB	Power-Bank-45K/100HB	Power-Bank-50K/120HB
DC Input (PV Side)	Max. Input Power	76kW		
	MPPT Operating Voltage Range	200–800 V		
	Number of MPPTs	2		
	Strings per MPPT	1		
	Max. Input Current	64 A × 2		
DC Input (Battery Side)	Cell Type	LFP-314 Ah		
	PACK Configuration (Series/Parallel)	1P20 S		
	Number of Battery PACKs	4	5	6
	System Capacity	80.38 kWh	100.48 kWh	120.5 kWh
AC Output (Load Side)	Rated Output Power	35 kVA	45 kVA	50 kVA
	Rated Output Voltage	3P+N+PE，380/400 V		
	Rated Output Frequency	50/60 Hz		
	Rated Output Current	50 A	65 A	72.5 A
	Overload Capacity	110 % Continuous Overload Capability		
AC Output (Grid Side)	Rated Output Power	35 kVA	45 kVA	50 kVA
	Rated Output Voltage	3P+N+PE，380/400 V		
	Rated Output Frequency	50/60 Hz		
	Total Harmonic Distortion (THDu)	< 3 %		
	Overload Capacity	110 % Continuous Overload Capability		
	Power Factor	-1~1		
System Parameters	Switching Time	⩽ 20 ms		
	Cooling Method	Intelligent Air-Cooled		
	IP Rating	IP54		
	Operating Temperature Range	-20 °C ～+ 55 °C (>45 °C Derating Required)		
	Humidity Range	0~95 % RH(Non-Condensing)		
	Altitude	2000 m (>2000 m Derating Required)		
	Corrosion Resistance	C4		
	Weight	≈1200 kg	≈1350 kg	≈1500 kg
	Fire Protection System	Smoke Detector + Heat Detector + Audible and Visual Alarm + Aerosol Fire Suppression		
	SOC Calibration Method	Automatic		
	Dimensions (W × D × H mm)	750 × 1300 × 2225 mm		
	Communication Interface	Ethernet, RS-485		
	Communication Protocol	Modbus TCP，Modbus RTU		
	Cycle Life	⩾8000 Cycles(@25 °C, 0.5P, DOD 90 %, EOL70 %)		

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