



ALL IN ONE Off-Grid Energy Storage Inverter System



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ZHEJIANG BENYI NEW ENERGY CO.,LTD.

SHUANGHUANGLOU INDUSTRIAL ZONE, BEIBAIXIANG TOWN, YUEQING CITY, WENZHOU CITY, ZHEJIANG PROVINCE, CHINA.

TEL: +86-577-5717 7008 FAX: +86-577-5717 7007

✉ info@beny.com 🏠 Importer:xxxxxxx

🌐 www.beny.com 📍 Address:xxxxxxx

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⚠️ If the models and specifications in this product catalogue change due to product updates, we will not provide prior notification.



Product Introduction

This product is highly integrated with off-grid hybrid inverter energy storage systems. Integrated design, compact and simple structure, waterproof and dustproof rating IP54, suitable for various household scenarios.



Product Specifications

Model	BYA10-6/5-0G	BYA10-6/11-0G	BYA10-11/11-0G
Basic Electrical Parameters			
Rated power	6KVA/6kW		11KVA/11kW
Peak power	8.5kW		16kW
Product architecture	6KW bidirectional inverter with PV charging		11KW bidirectional inverter with PV charging
Output phase number	Single phase output		Single phase output
Input voltage			
Input formation	L+N+PE		
AC Input	220/230/240VAC		
Input Voltage Range	90-280VAC + 3V (Normal Mode) 170-280VAC + 3V (UPS Mode)		
Frequency	50/60Hz (Adaptive)		



Output			
Rated Power	6200W		11000W
Output Voltage	220/230/240VAC+5%		220/230/240VAC+5%
Output Frequency	50/60Hz+0.1%		50/60Hz+0.1%
Output wave	Pure Sine Wave		Pure Sine Wave
Transfer Time(Adjustable)	10ms for Computer Equipment,20ms for Household Equipment		
Peak Power	12400VA		22000VA
Overload Ability	Battery Mode:21s@105%~150%Load11s@150%~200%Load 400ms@>200% Load220/230/240VAC+5% (Feed-in Grid Voltage Range:195~253VAC)		
Grid connected Operation			
Output Voltage	220/230/240VAC±5%(Feed-in Grid Voltage Range:195~253VAC)		
Grid Voltage Range	Grid Voltage Range		
Grid Frequency Range	49-51+1Hz/59-61+1HZ		
Power Factor Range	>0.99		
(DC/AC)Conversion Efficiency	98%		
Charger			
PV Charging Method	MPPT		MPPT*2
Max PV Input	8500W		2*7500W
MPPT Tracking Range	60~500VDC		90~500VDC
Best VMP Working Range	360-430VDC		360-430VDC
MAX PV Input Voltage	500VDC		500VDC
MAX PV Input Current	27A		27A/27A
MAX PV Charge Current	120A		150A
MAX AC Charge Current	100A		150A
MAX Charge Current	120A		150A
Battery spec			
Batterytype	LiFePO ₄ 105Ah		LiFePO ₄ 230Ah
Rated voltage of battery	51.2V		51.2V
Battery voltage range	44.8~58.4V		44.8~58.4V
PV mode Max charging current	Default:50A, Max:100A(Settable)		Default:100A, Max:100A(Settable)
Battery Capacity	5.22kwh	11.77kwh	11.77kwh
Float charging voltage	55.2VDC(Settable)(LiFePo4 battery)		
Constant voltage chargingvoltage	57.6VDC(Settable)(LiFePo4 battery)		



Charging method	Three stage charging (LiFePO4 battery)
Battery voltage UVP ^{*1}	43±1V
Battery voltage UVP recovery ^{*1}	44±1V(Recovery after charging mode)
Battery voltage OVP ^{*2}	60±1V
Battery voltage OVP recovery ^{*2}	58±1V

Protection Function

Input UVP Protection ^{*1}	YES
Input OVP Protection ^{*2}	YES
Output Overload Protection	YES
Output OverTemperature Protection	YES
Output Short Circuit Protection	YES

GENERAL DATA

Size (mm)	630*510*240	800*570*240	970*580*265
Net weight (kg)	80	110	150
Installation method	Wheel movable		
Communication port	RS485/CAN/Dry contact/WIFI		
Noise	≤50db		
Humidity	5%~95% relative humidity		
Working Temperature	-20℃~50℃(Derating of 45℃)		
Storage Temperature	-25℃~50℃		
Altitude	3000m (for power reduction exceeding 2000m)		
Heat dissipation method	Forced air cooling		
Operation panel	LCD screen		
Protection class	IP20		

CERTIFICATIONS & STANDARDS

Safety Regulation	IEC/EN 62109-1/2
EMC Standard	IEC/EN 61000-4,EN55032
Warranty	3 YEARS STANDARD WARRANTY

*1 UVP:Under Voltage Point

*2 OVP:Over Voltage Point

