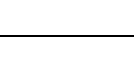


BES30S3

ALL-IN-ONE ENERGY SYSTEM

SPECIFICATION



BES30S3 Battery/Solar/Diesel All-in-one Energy System				
Item	Unit	Data		
Voltage	AC V	380	400	415
Max. output power	kVA/kW	36/36	36/36	36/36
Max. current	A	55	52	50
Continuous output power	kVA/kW	30/30	30/30	30/30
Continuous current	A	46	43	42
Overload capability		110% last 10mins, 120% last 1min (SOC>30%, AT<45℃)		
Frequency	Hz	50		
Phase	P	3		
Power factor	PF	1		
Dimensions	mm	3044 x 1400 x 2492		
Dry weight	kg	3336		
40' Loading	Qty	3		
Noise level(hybrid mode)	dBA@7m	55		
Noise level(battery mode)	dBA@7m	50		
Protection level		IP54		
Wind resistance rating		8		
Ambient temperature		-20℃-50℃		
Power connection input		AC socket Busbar		
Power connection output		Main load socket Busbar AC socket: 1P, 1x16A, 1x32A; 3P, 1x63A		
Certification standards		 UN38.3  IEC 62619  IEC 62477  IEC / EN 60529  EN 61000-6-1/2/3/4  AS 4777.2  G99  CE Declaration of Conformity Stage V		

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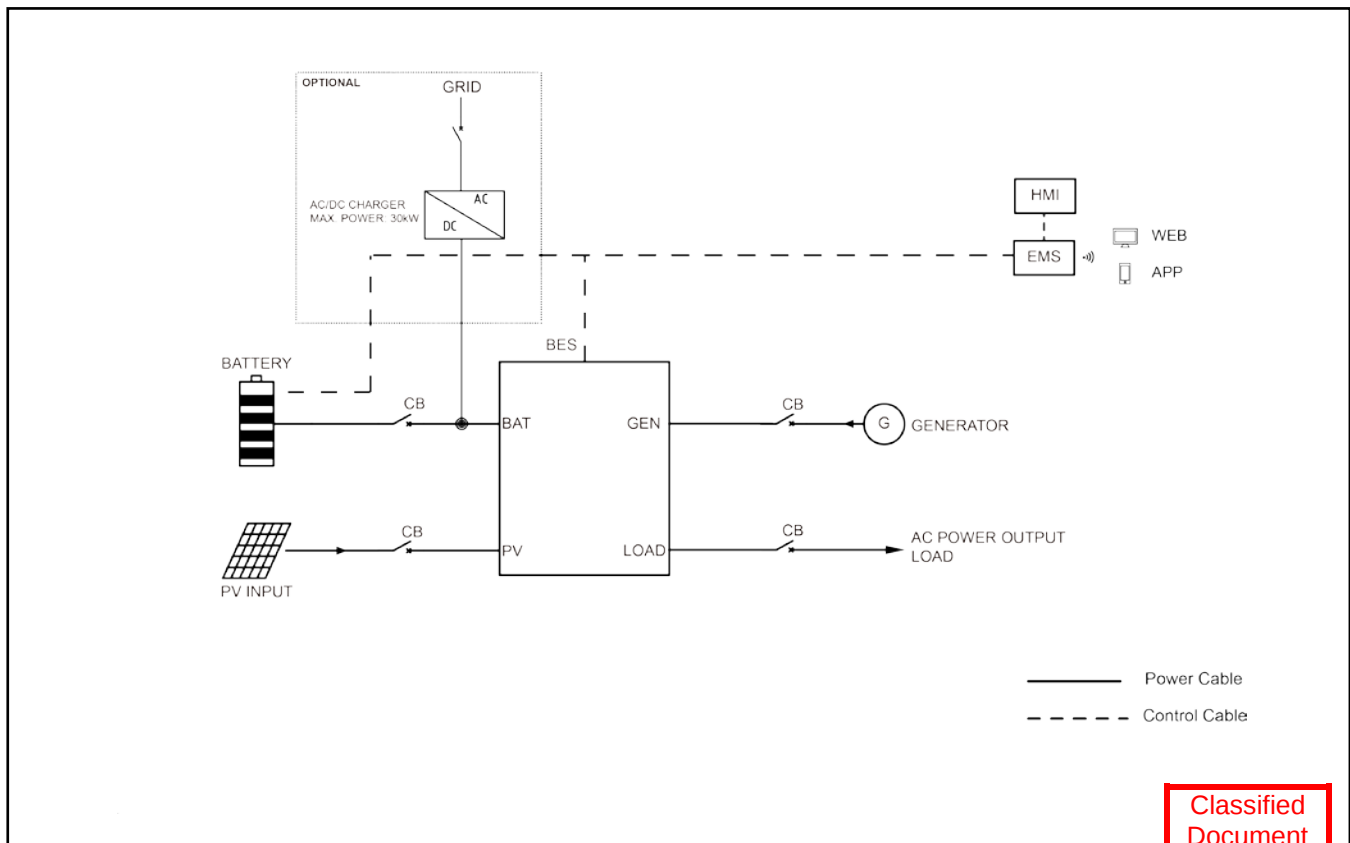
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The technical data is measured in standard conditions:

- Absolute atmospheric pressure: 100kPa
- Ambient temperature: 25℃
- Relative air humidity: 30%

Note: If the on-site operating environment changes, the parameters on the specification will change accordingly.

System working principle



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Intelligent Energy Management



DC/AC System		
Rated power	kVA/kW	60/60
Output voltage	AC V	380/400/415
Parallel / On-grid function		Parallel: ☒ ; On-grid: ☒
MPPT rated power	kWp	38.4+38.4
Rated voltage	DC V	200-800

Grid Power Input		
Rated power	kVA/kW	30/30
Phase	P	3

PV System		
Solar panel voltage	DC V	22-60
Solar panel capacity	Wp	720x5

Battery System		
Battery type		LiFePO4
Battery capacity	kWh	30.7
Rated voltage	DC V	307
Cooling system		Liquid-cooled
Max charging rate		1C
Max discharging rate		1C
DOD (depth of discharge)		Default 80% (set via SOC)
NOTE: The discharge power decreases as the battery SOC decreases.		

Diesel Generation System		
Engine brand / mode		Yunnei / DEF20CFA4
Alternator brand		Powerlink
Rated power	kVA/kW	37/30
Rated voltage	AC V	415
Phase	P	3
Fuel tank capacity	L	100

Control System		
HMI control panel	inch	13" Touchscreen
Communication protocol		Modbus TCP/IP
Communication interface		WAN/WIFI/SIM
IoT		APP/WEB

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* Data is subject to change without prior notice as new products are always developed.

Please contact POWERLINK or local agent with any doubts or for more information.