






BYD Energy Pod



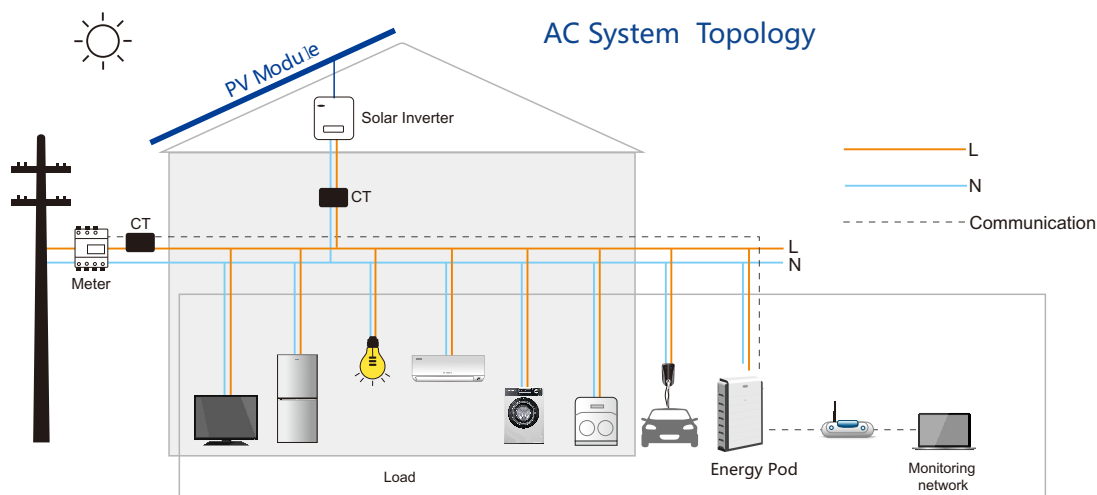
Introduction

BYD Energy Pod, the new generation energy storage system, is designed and developed for residential customers. System adopts high-performance lithium iron phosphate battery, which combines functional integration and modular design. The capacity can be smoothly expanded, at the meantime the installation is faster and more convenient. Basically, the system can support photovoltaic charging, load matching, remote dispatch and emergency backup (off-grid),etc. The overall system is fully upgraded based on the first generation of MiniES products, to meet the diverse needs of customers around the world.

Features

-  **All-in-one Design** : The battery , PCS , BMS and other technologies are highly integrated, and there is no external cable connection between the structures to effectively protect user security and reduce installation cost.
-  **Modular Design**: Flexible capacity solution, 7.2kWh-14.4kWh optional capacity for global users to choose. The capacity can be smoothly expanded upwards to meet the needs of families in different periods.
-  **Battery Ten-year Warranty**: During the warranty period, the battery capacity remains more than 70%.

• The picture is only an effect picture, please refer to the actual product, the final interpretation right belongs to BYD Auto Industry Co., Ltd.



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BYD Energy Pod

				
Type	BYD Energy Pod 3kw/7.2kwh AC	BYD Energy Pod 4kw/9.6kwh AC	BYD Energy Pod 5kw/12kwh AC	BYD Energy Pod 5kw/14.4kwh AC
Battery box quantity	3	4	5	6
PCS box quantity	1	1	1	1
BMS box quantity	1	1	1	1
Basement	1	1	1	1
On-grid Parameter				
Nominal Power/VA	3000	4000	5000	5000
Nominal Current A a.c.(@230V)	13	17.4	21.7	21.7
Maximum current A a.c(@230V)	16	21.7	25	25
Nominal Voltage/V	230			
Voltage Range/V	172.5~264.5			
Nominal Frequency/Hz	50			
Phase	Single phase			
THD of current	<5%			
Power factor	-0.8~0.8			
Max. efficiency	96%			
Emergency power supply Parameter				
Nominal Power/VA	NA	3000	4000	4000
Nominal Current/A	NA	13	17.4	17.4
Nominal Voltage/Vac	230			
Nominal Frequency/Hz	50			
Switch time	<1s			
THD of voltage	<3%			
Battery Parameter				
Nominal Battery capacity@DC side/kWh	7.2	9.6	12	14.4
DOD	90%			
Battery Voltage/Range/Vdc	96/(84~108)	128/(112~144)	160/(140~180)	192/(168~216)
Maximum charge/discharge current/A	40			
Other				
Protection rating	IP55			
Noise level @1 meter	45dB (A)			
Permissible Altitude/m	2000			
Cooling method	Forced air cooling			
Weight(About)/kg	124	152	180	208
Size (L*D*H mm)	755*295*1155	755*295*1325	755*295*1490	755*295*1655
Isolation method	Transformerless			
Work Temp. / °C	-10~50 (Derating at certain temperature level)			
Storage requirement/°C	-20~50 Short storage temperature : -20~35 (less than 3 month , SOC : 30%~60%) Long storage temperature : -20~35 (less than 1 year , SOC : 30%~60%) Storage humidity : 5%~85% (Non-condensing)			
Communication Port	LAN /RS485			
Interaction	Button			
Safety standard	AS 62040-1-1:2003 EN 62477-1 IEC 62619			
EMC standard	AS/NZS61000.6.3:2012 EN 61000-6-2:2005			
Grid standard	G98/G99/AS4777			
CEC Listing	BYD Energy Pod 3kw/7.2kWh AC BYD Energy Pod 4kW/9.6kWh AC BYD Energy Pod 5kW/12kWh AC BYD Energy Pod 5kW/14.4kWh AC			

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