



All in one Energy Storage System with EV Charger

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



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Product Introduction

This product is highly integrated with photovoltaic inverters, energy storage converters, energy storage systems, and electric vehicle AC charging modules. Integrated design, compact and simple structure, waterproof and dustproof rating IP65, suitable for various household scenarios. It can fully utilize solar energy to charge electric vehicles, saving charging costs.



IP65 Rating



APP Control/Remote Monitoring



Plug and Play



Expandable Storage



5 Year Warranty



Integrated 7kw charging module

Product Specifications

Model		BYAIO-PEC6710
PV STRING INPUT (DC)		
Max.DC Input Power [W]	9kW	
Max.DC Input Voltage[V]	600V	
MPPT Voltage Range[V]	100V~550V	
Max. Input Current [A]	16A	
Max. Short Circuit Current[A]	24A	
No.of MPP Trackers	2	
Strings per MPP Tracker	1	
Galvanic Isolation for PV Modules	Transformerless	
Max.Back feed Current to PV Array	0A	

BATTERY INPUT SIDE	
Battery Type	LiFePO4 230Ah
Battery Capacity	11.7kWh
Nominal Battery Voltage	51.2V
Battery Voltage Range	40~58.4V
Galvanic Isolation for Battery	YES
Max. Charge Current	100A
Max.Charge Power	5.85kW
Max. Discharge Current	100A
Max.Discharge Power	5.85kW
Rated DC Power	5.85KW Charge & Discharge
Max Short Circuit Current	330A
Protection	Over Voltage,Less Voltage, Over Current,Short Circuit, Over Temperature,Under temperature Lithium Ion:0-90% DOD Adjustable
GRID AC OUTPUT(ON-GRID)	
Nominal Apparent Power Output to Utility Grid [VA]*1	6KVA
Nominal Output Voltage[V]	230V
Nominal Output Frequency[Hz]	50/60Hz
Max. AC Current Output to Utility Grid[A]*2	27.3A
Output Power Factor	[Adjustable from 0.8 leading to 0.8 lagging]
Output THDI [@Nominal Output]	<3%
EPS AC OUTPUT DATA(BACK-UP)	
Rated output power	6KVA
Max.Output Current[A]	27.3A
Rated output voltage,frequency	230V,50Hz
THDv [@ rated power]	<3%
Switch Time	10ms [typical]
EV Charger	
Rated Power(W)	7.4kW
Nominal Voltage(V)	230V
Nominal Frequency(Hz)	50/60Hz
Rated residual operating current	AC:30mA+DC:6mA
Operation Mode	Insert charger plug to start automatically
Output cable	6m AC charging cable(customizable)



EFFICIENCY	
MPPT Efficiency	99.9%
Euro Efficiency	97.2%
Max.Efficiency	97.5%
Max. Battery to Load Efficiency	95%
Topology	High Frequency Isolation
PROTECTION	
Anti-islanding Protection	YES
PV String Input Reverse Polarity Protection	YES
Insulation Resistance Detection	YES
Residual Current Monitoring Unit	YES
Output Over Current Protection	YES
Output Short Protection	YES
Output Over Voltage Protection	YES
I-V curve scanning	YES
Ground Fault Detection	YES
Battery soft start protection	YES
GENERAL DATA	
DC Switch	Standard
Dimensions [W*H*D] [mm]	1430*600*230
Net Weight(KG)	153
Protection Degree	IP65
Mounting Information	Wall Mount
Operating Temperature Range	0-50°C charge/-20°C-50°C discharge
Noise Emission [typical] [dB]	<25dB
User Interface	APP
Communication with BMS*3	CAN
Communication with Meter	RS485
Communication with Portal	Wi-Fi/GPRS
Relative Humidity (%)	95% no condensation
Site Altitude (m)	<2000m
Cooling Concept	Air cooling
Protective Class	I
Over Voltage Category	DC type II /AC type II



CERTIFICATIONS & STANDARDS	
Grid Regulation	EN50549.IEC61727/62116.G98/G99.VDE4105,C10/C11,NRS097-2-1,CEI0-21, UNE217001.UNE217002.RD647.NTS,BIS,AS4777.2
Safety Regulation	IEC/EN 62109-1/2,IEC62752,IEC 61851-21-2
EMC Standard	IEC/EN 61000-1/3
Warranty	5 YEARS STANDARD WARRANTY

*1 4600 forVDE-AR-N4105,4050 for CE10-21
*2 not exceed 21.7 A for more than 15s.(AS NZS 4777.2-20201
*3 The standard configuration is CAN