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Technical features

Storage battery for photovoltaic systems 8kWh Model: E-BS14-001

A storage system for a photovoltaic system is a set of batteries that store the energy produced by the photovoltaic panels and which is not immediately consumed. This mechanism allows you to accumulate energy in excess of consumption produced during the day and use it in the evening/night without having to request it from the electricity grid. The photovoltaic system with storage, therefore, allows the energy to be used at a different time compared to when it was produced.





the new E-BS14-001 is a lithium ion battery storage system for domestic photovoltaic systems. It allows you to store the energy produced by photovoltaic panels with a capacity of 8kWh.

Thanks to the addressing switch it is possible to connect up to 16 batteries to the same system.

Thanks to the simple graphic interface on the display it is possible to check the status of the battery pack and the individual cells at any time.

It uses CAN 2.0 and RS 485 communication protocols to communicate with the inverter providing status and operating data.

With the monitoring application provided for the PC it is possible, in addition to checking the status, to set operating parameters and any alarms.

The battery case is made of 1.5 mm thick steel to ensure excellent resistance to shocks and stress

There is an on and off button to safely mount or isolate the battery.

The status LEDs indicate the battery charge, whether operation is correct and whether there are alarms to report.



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Li-ion Battery Pack (Model E-BS14-001)		
Battery Data		
Minimum voltage	42V	
Nominal tension	50.4V	
Maximum voltage	58.1V	
Capacity	162.4Ah - 8.2KWh	
CC-CV charging current	100A - Cut-off 0.5A	
Rated discharge current	120A	
Maximum discharge current	150A	
Maximum discharge current (30s)	225A	
General	data	
Storage temperature	-10°C +60°C	
Discharge temperature	0°C +45°C	
Charging temperature	0°C +45°C	
Dimensions	630mm x 360mm x 225mm	
Weight	55 Kg	
Batteries connectable in parallel	15 units	
Communication ports	CAN2.0 / RS485	
BMS monitoring parameters	SOC, System voltage, current, cell voltage, temperature, current trend graph.	
Certifications IEC 62619/62620 (Cells and Module), CE, UN 38.3		

Compatibility

Compatible Inverters		
Brand	Compatibility	
Pylontech	CAN/RS485	
Goodwe	CAN	
Megarevo	CAN	
Growatt	RS485	
Voltronic	RS485	
Say	CAN	
Soroteec	CAN	
So far	CAN	
Solax	CAN	
Must	RS485	
Pace	RS485	
GT	RS485	
Thing	RS485	

Contact the company for further specifications on compatibility with other inverters

Connectivity and Communication



1		
RS232 using 6P6C vertical RJ11 sockets		
RJ11 pin	Definition Description	
2	NC	
3	TX (veneer)	
4	RX (veneer)	
5	GND	

2

RS485Using 8P8C vertical RJ45 sockets		CAN using 8P8C vertical RJ45 sockets	
RJ45 pin	Definition Description	RJ45 pin	Definition Description
1, 8	RS485-B1	1, 2, 3, 6, 8	NC
2, 7	RS485-A1	4	CANH
3, 6	GND	5	CANL
4, 5	NC	7	GND

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RS485Using 8P8C vertical RJ45 sockets		RS485 using 8P8C vertical RJ45 sockets	
RJ45 pin	Definition Description	RJ45 pin	Definition Description
1, 8	RS485-B	1, 8	RS485-B
2, 7	RS485-A	2, 7	RS485-A
3, 6	GND	3, 6	GND
4, 5	NC	4, 5	NC

RS 232 adapter



It is necessary to connect with the RS 232 adapter as shown in the figure

Monitoring Software

Realtine Monitoring	Multi Monitoring			
Parameter	BMS addr 2 3 4 5 6 7 8 9	10 11 12 13 14 15 16		protect: 0 warning: 0 notice: 0
Setting		temperature (°C)		
calibration	<u> </u>			
Redundant		ENV MOS01	M0502	
Redundant monitoring (primary)				
Real time		Tce1101 Tce1103	Tce1105	
	state			Alarm Status
Memory Information	ChgDsgStatus Battery type	Tcel102 Tcel104	Tce1106	N/A
FAE status	Cell Number ####################################			
	Version ####################################	Vcell voltage (mV)		
	S/N BarCode ####################################	vcell voltage (mv)		
		max xx min xx	γΔ	
	Data U. DestanConstitu			Protect Status
	CPU_Voltage V DesignCapacity mAH	Tcel101 Tcel102	Tcel103	N/A
	AFE_Voltage V FullCapacity mAH			
	Current A RemainCapacity mAH	Tce1104 Tce1105	Tce1106	
	SOC % Battery Cycle C	Tcel107 Tcel108	Tce1109	
	control	Tcell10 Tcell11	Tcel112	
	CHGon SoundAlarmOn Switch (on)	Tcell13 Tcell14	Tcel115	Fault Status
	CHGoff SoundAlarm0ff Switch (off)			N/A
		Tcell16 Tcell17 _	Tce1118	
	DSGon LEDA1armOff SOC_LED (XD)	Tcell19 Tcell20	Tce1121	
	DSGoff LEDA1arm0n	Tcel122 Tcel123	Tce1124	
	Sleep			
UART 【	OM1 RUN NULL		•	system time: 14/09/2023 11:46:20

With the monitoring software we can monitor in real time every aspect of battery operation, voltage, current and general capacity, single cell and temperature parameters, alarms and warnings.

It is possible to modify and export the operating data.