

Energy Bank



MODEL	EB 36	EB 72	EB 107	EB 143	EB 215
Max.DC Input Power			6500W		
DC INPUT DATA (SOLAR)					
Max.DC Power			4600W		
Max.DC Voltage			580 V		
MPPT voltage Range			100-500V		
Start-up Voltage			110V		
Min. DC Voltage			75V		
No. of MPP Trackers			2		
No. of Input Strings per Tracker			1		
Max. DC Input Current			12A/12A		
Type of DC Connector			MC4		
DC Switch			Intergrated		
AC OUTPUT DATA (ON-GRID)					
Rated AC Power			4600W		
Max.output power			4600W		
Max. AC Current			21.7A		
Nominal AC Voltage/Range			230V/180-270V		
Grid frequency/ range			50HZ/60HZ 45~55HZ/55~65HZ		
Power Factor[cos φ]			0.8leading ~0.8lagging (full load)		
Total Harmonic Distortion [THDi]			<3%		
AC OUTPUT DATA (BACK-UP)					
Max. Output Apparent Power			3000W		
Nominal output voltage			230V		
Nominal output frequency			50/60HZ		
Max.output current			13A		
Total Harmonic Distortion [THDi] at reted output			<3%		
Automatic switch time			<5s		
Peak power, Duration			4500W, 10S		

BATTERY INPUT DATA					
Norminal Battery Voltage	48V				
Battery Voltage Range	40-60V				
Max. Charging / Discharging Current	60A				
Communication Interface	CAN				
GENERAL DATA INVERTER					
Size(Width*Height*Depth)	526*528*178mm				
Weight	29.5KG				
Mounting	Wall Hangings				
User Interface	LCD				
Communication	Ethernet(standard), RS485(Optional), Wifi(Optional)				
Ambient Temperature Range	-25 °C ~ 60 °C (> 45 °C Derating Operation)				
Relative Humidity	0-98% (No condensation)				
Operating Altitude	4000m (>2000m derating Operation)				
Standby Self Consumption	<1W				
Topology	Transformerless				
Cooling	Natural Convection				
Protection Grades	IP65				
Noise	<60db				
Warranty	8 year(Standard)				
EFFICIENCY					
Max.Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Accuracy	99.9%				
PROTECTION					
DC Insulation Monitoring	Intergrated				
Input Reverse Polarity Protection	Intergrated				
Output Over Current Protection	Intergrated				
Anti-island Protection	Intergrated				
GFCI Monitoring	Intergrated				
OverHeat Protection	Intergrated				
SPD	Standard (TypeII, IEC61643-11:2011/EC61643-11:2012/UL1449 Ed.4/ EN50539-11:2013)				
CERTIFICATION & STANDARDS					
Grid Regulation	VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G59/3, UTE C15-712-1, MEA, PEA, AS4777, EN 50549-1,NB/T 32004-2013,CEI-021				
Safety Regulation	IEC 62109-1, IEC 62109-2,AS/NZS 3100				
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29				
MODEL	EB 36	EB 72	EB 107	EB 143	EB 215
Battery Type	LiFePO4				
Module Numbers	1 pc	2 pcs	3 pcs	4 pcs	6 pcs
Case Numbers	1 pc	1 pc	2 pcs	2 pcs	3 pcs

NOMINAL CHARACTERISTICS					
Nominal Voltage	51.2V				
Battery Capacity	70Ah	140 Ah	210 Ah	280 Ah	420 Ah
Nominal Battery Energy	3.58 KWh	7.16 KWh	10.74 KWh	14.32 KWh	21.5 KWh
Peak Output Current	70A	140 A	210 A	280 A	420 A
ELECTRICAL SPECIFICATIONS					
Voltage Range	44.8-57.6V				
Max.Charging Current	70A				
Max.Discharging Current	70A				
MECHANICAL SPECIFICATIONS					
Net Weight	59kg	94	153	188	282
Demension	526*170*1000mm (pr case)				
Ingress Rating	IP65				
Color	White(Customizable)				
Cooling	Natural Convection				
COMMUNICATION SPECIFICATIONS					
Communication Port	CAN/RS485				
OPERATION CONDITIONS					
Operation Temperature Range / Recommended	-10°C - 50°C / 0°C - 35°C				
Operation Humidity	5% - 95%				
Altitude	<2000m				
Storage Conditions	-10°C - 35°C				
Cycles	> 6000 Cycles				
PROTECTION					
OverCharge/Overdischarge Protection	Integrated				
OverCurrent Protection	Integrated				
Overtemperature Protection	Integrated				
Short Circuit Protection	Integrated				
CERTIFICATION					
Certification	CE/EN62619 /EN61000 / UN38.3 /ROHS				

Smart Energy
SYSTEMS