



Residential BESS

Rack Mounted type-LV



Safety Multi-protection from self developed BMS

Optimal Electricity Cost Long cycle life and superior performance



Compact Size & East Installation Module design help for quick installation



Easy to Scale Up Be workable to be parallel based on 48V



Compatibility Compatible with Tier 1 inverter brands

How to save bill from Residential ESS?

1. Self-Consumption Optimization

High energy demand in the morning and evening but solar generation is most sufficient during the Mid-Day. Battery Storage system balance the feeding and demands. Realize your grid independence.





2. Benefits from Peak Shaving

House: Load Shifting

Store the power during low-peak and use the energy at peak-time. Save the money which happens arising from peak rate.

Transmission&Distribution: peak Shaving

Save on the electricity bills by reducing peak demand

3. VPP Revenue

VPP creates a network of renewable energy sources and battery storage systems, connected through a cloud-based technology that manages the stability of clean electricity to maximize your revenue.

Enabling a cost reduction, as well as boosting the system's efficiency



SPECIFICATION (48V)

Basic Parameters Interview Interview Interview Nominal Voltage (Vdc) 48 48 48 Nominal Capacity(Wh) 2400 3552 4800 Usable Capacity(Wh) 2280 3374 4560 Dimension(mm) 442*410*89 442*420*132 442*420*161 Weight(kg) 22.5 32 39.7 Charge/ Discharge (Peak 1) 50~89@60sec 74~89@60sec 101~120@15min (Max. Continuous) 25 37 100* (Peak 1) 50~89@60sec 90~200@15sec 90-200@15sec Communication Port RS485,CAN 121-200@15sec 121-200@15sec Single string quantify[cs] 16 16 16 Working Temperature/°C Charge 0~50 121-200@15sec Shelf Temperature/°C Discharge 10-50 121-200@15sec Short current/duration time <4000A/2ms <2000A/1ms 2000A/1ms P rating of enclosure IP20 121-200@15sec 2000A/1ms Cooling type Natural					* * 2 3 1 US5000 * Prior itich *
Nominal Voltage (Vdc) 48 48 48 Nominal Capacity (Wh) 2400 3552 4800 Usable Capacity (Wh) 2280 3374 4560 Dimension (ITT) 442±410±89 442±420±132 442±420±161 Weight (kg) 22.5 32 39.7 Max 25 37 80* Objecting (Max. Continuous) 25 37 100* (Peak 1) 50~89@60sec 74~89@60sec 101-120@15min (Deak 2) 90~200@15sec 90~200@15sec 121-200@15sec Communication Port RS485,CAN 121-200@15sec 121-200@15sec Single string quantity (pcs) 16 16 16 Working Temperature/C Charge 0~50 121-200@15sec Shelf Temperature/C Charge 0~50 200A/1ms Shelf Temperature/C Charge 0~20~60 2000A/1ms P rating of enclosure <4000A/2ms	Module		US2000C	US3000C	US5000
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Weight(kg) 22.5 32 39.7 Charge/ Discharge/ Discharge/ Discharge/ Discharge/ Discharge/ Discharge/ Discharge/ Discharge/ Discharge/ Discharge 25 37 80* (Peak 1) 50~89@60sec 74-89@60sec 101~120@15min (Peak 2) 90~200@15sec 90~200@15sec 121~200@15sec Communication Port RS485,CAN 121~200@15sec Single string uantity(pcs) 16 16 16 Working Temperature/°C Charge 0~50 - Shelf Temperature/°C Discharge -10~50 - Shelf Temperature/°C Discharge -10~50 - P rating of enclosure 44000A/2ms <2000A/1ms	Usable Capacity(Wh)		2280	3374	4560
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Working Temperature/°c Charge 0~50 Working Temperature/°c Discharge -10~50 Shelf Temperature/°c -20~60 Short current/duration time <4000A/2ms	Communication Port			RS485,CAN	
Working Temperature/°c Discharge -10~50 Shelf Temperature/°c -20~60 Short current/duration time <4000A/2ms	Single string quantity(pcs)		es) 16	16	16
Shelf Temperature/°C -20~60 Short current/duration time <4000A/2ms	Working Temperature/ $^\circ\!C$		C Charge	0~50	
Short current/duration time<4000A/2ms<4000A/2ms<2000A/1msP rating of enclosureIP20IP20Cooling typeNaturalIP20Humidity5% ~ 95% (RH) No CondensationAutitude(M)<4000	Working Temperature/ $^\circ\!C$		C Discharge	-10~50	
P rating of enclosure IP20 Cooling type Natural Humidity 5% ~ 95% (RH) No Condensation Altitude(M) <4000	Shelf Temperature/ °C			-20~60	
Cooling typeNaturalHumidity5% ~ 95% (RH) No CondensationAltitude (M)<4000	Short current/duration time		e <4000A/2ms	<4000A/2ms	<2000A/1ms
Humidity 5% ~ 95% (RH) No Condensation Altitude(M) <4000	P rating of e	nclosure		IP20	
Altitude(M) <4000 Design life 15+ Years (25°C/77°F) Cycle Life >6,000 25°C Authentication Level UL1642/ IEC62619 UL1642/ IEC62619 UL1973 /UL1642/UL9540A //CEC63056 UL1973 /UL1642/UL9540A //CEC63056 //EC62619/IEC62040/IEC62047/-1	Cooling type			Natural	
Design life 15+ Years (25°C/77°F) Cycle Life >6,000 25°C Authentication Level UL1642/ IEC62619 /ICE63056 UL1973 /UL1642/UL9540A /VDE2510-50/IEC63056 UL1973/UL9540A IEC62619/IEC63056	Humidity			5% ~ 95%(RH) No Condensation	
Cycle Life >6,000 25°C Authentication Level UL1642/IEC62619 /ICE63056 UL1973 /UL1642/UL9540A /VDE2510-50/IEC63056 UL1973/UL9540A IEC62619/IEC62040/IEC62477-1	Altitude(M)			<4000	
Authentication Level UL1642/IEC62619 //UL1642/UL9540A UL1973/UL9540A /ICE63056 //IEC62619/IEC62040/IEC620477-1 /ICE61000-6-2/3	Design life			15+ Years (25°C/77°F)	
Authentication Level UL1642/ IEC62619 /VDE2510-50/IEC63056 IEC62619/IEC63056 /IEC62619/IEC63056 /IEC62619/IEC62040/IEC62477-1 /ICE61000-6-2/3	Cycle Life			>6,000 25°C	
	Authentication Level		/ICE63056	/VDE2510-50/IEC63056 /IEC62619/IEC62040/IEC62477-1	IEC62619/IEC63056 /ICE61000-6-2/3

*: The recommended and max. continuous operation current is for a battery cell temperature within 10~40°C to consider, out of such temp. range will cause a derating on operation current.

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