

# Energy Storage Bank ESB2000

## 1. Scope

Specification data described in Section 2,3,4,5 and 6 apply to the Energy Storage Bank supplied by RipeEnergy AG

## 2. Type and Name

2.1 Applicable : Energy Storage Bank  
2.2 Model Name. : ESB2000

## 3. Energy Storage Bank Spec:

### 3.1 AC Out:

#### 3.1.1

Power : 1500W  
Output Current (Continuous) RMS : 6.5A (AC)  
Min Discharge Time (1500W) : > 60 min  
Min Discharge Time (1000W) : > 100 min  
OCP : 7.3A (AC)

#### 3.1.2

AC Out Voltage : 230V  $\pm$ 2%  
AC Out Hz : 50Hz  $\pm$ 0.05%  
AC Outlet : AC230 \* 4 Sockets

### 3.2 AC In:

Voltage : 230V  $\pm$ 20%  
Hz : 50Hz  
Current : <6.5A (ac)  
Charge Time (BMS controlled Smart Fast Charge) : LCD SOC=0~95% <2.5Hr  
: LCD SOC=0~100% <3.5Hr  
Charge switch : Manual

### 3.3 LCD Display

2 x 16 lines, 8 x 5 dots matrix STN panel.



Display information:  
LCD SOC : 0 ~ 100%  
Time to Display : (H)hour & (m)minute  
Menu information : Refer to Appendix.

### 3.4 Safety & Environment

Safety Standard : CE applying.

#### 3.4.1 Temperature

Operating Range: -20°C to +45°C (up to 1500 meters above sea level)  
-20°C to +35°C (1501 to 3000 meters above sea level)

Transit and storage : -40°C to +70 °C.

3.4.2 Relative Humidity : 0 ~ 95% non-condensing

## 4. Battery

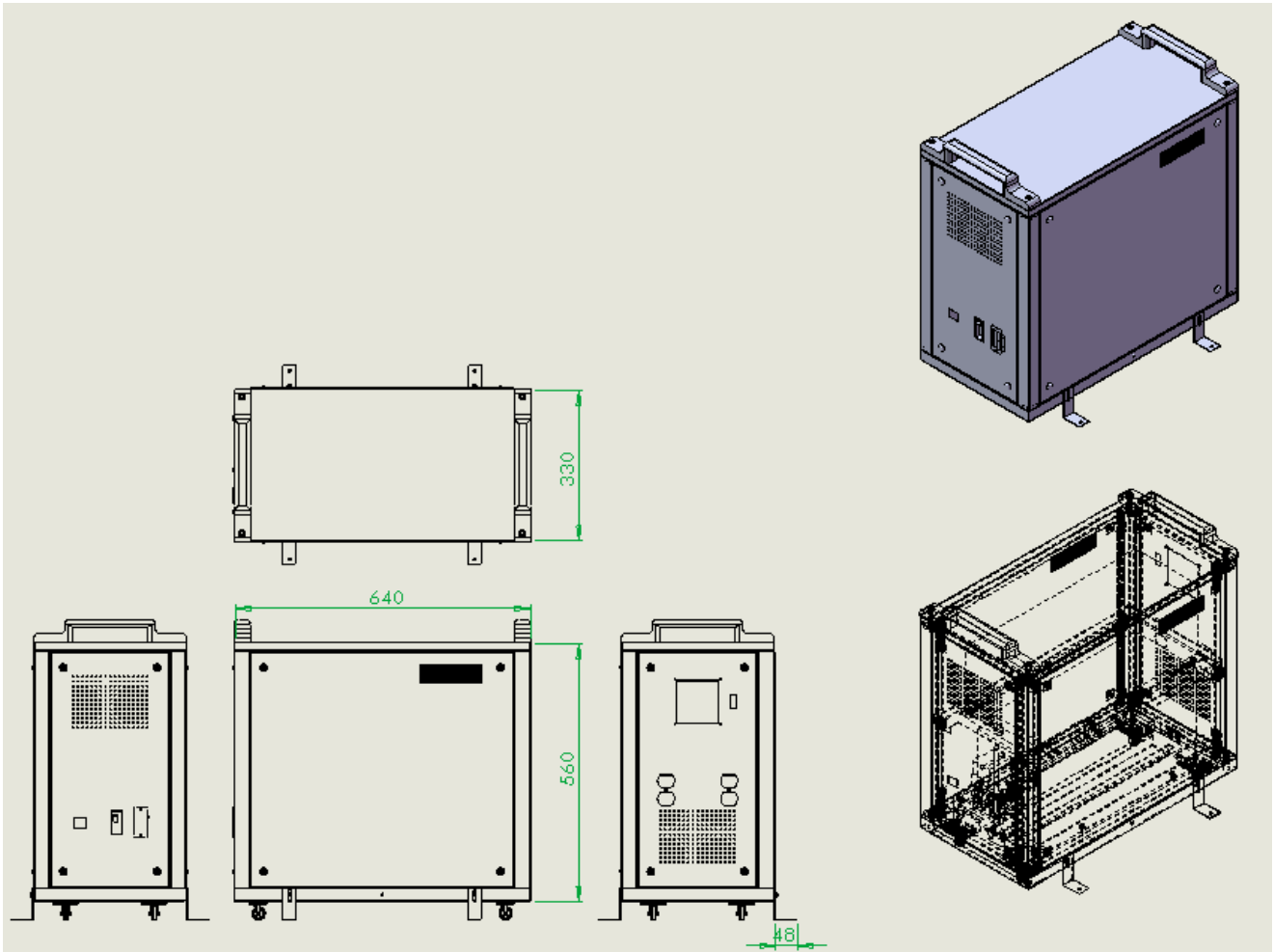
4.1 Cell Type : Lithium Iron Phosphate  
4.2 Normal Voltage : 26.4V  
4.3 Max Capacity : 90Ah  
4.4 Min Capacity : 84Ah  
4.5 Power Capacity : 2.15KWh  
(Energy Bank Only Use 80% Capacity)  
4.6 OTP (Battery) : 60°C  
4.7 OTP (Inverter) : 55°C  
4.8 Charge Current : <30A (DC)  
4.9 OVP : 3.9V/Cell  
4.10 UVP : 2.5V/Cell  
4.11 OCP : 100A

## 5. Inverter

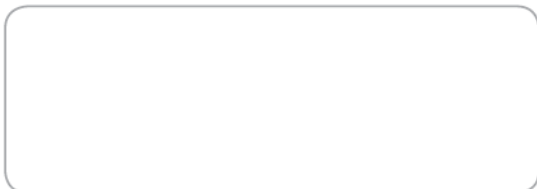
5.1 Power Transfer Efficiency : 88% (at 1500W)  
5.2 Power Consumption : <28W (standby mode)  
5.3 Max Power : 1500W  
5.4 THD : < 5%  
5.5 Transformer OTP (Type H) : 120°C (either 5.5 or 5.6 will start OTP)  
5.6 Heat Sink OTP : 70°C (either 5.5 or 5.6 will start OTP)  
5.7 Acoustic : <55dB (Discharge)  
<65dB (Charge)

## 6. Dimension & Weight

6.1 Net Weight : 82Kg ± 3Kg  
6.2 Dimension : 640(L) x330(W) x560(H) mm  
6.3 Color : Black



Available from:



**RIPEnergy**

The power conversion company

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