



Spec.No.

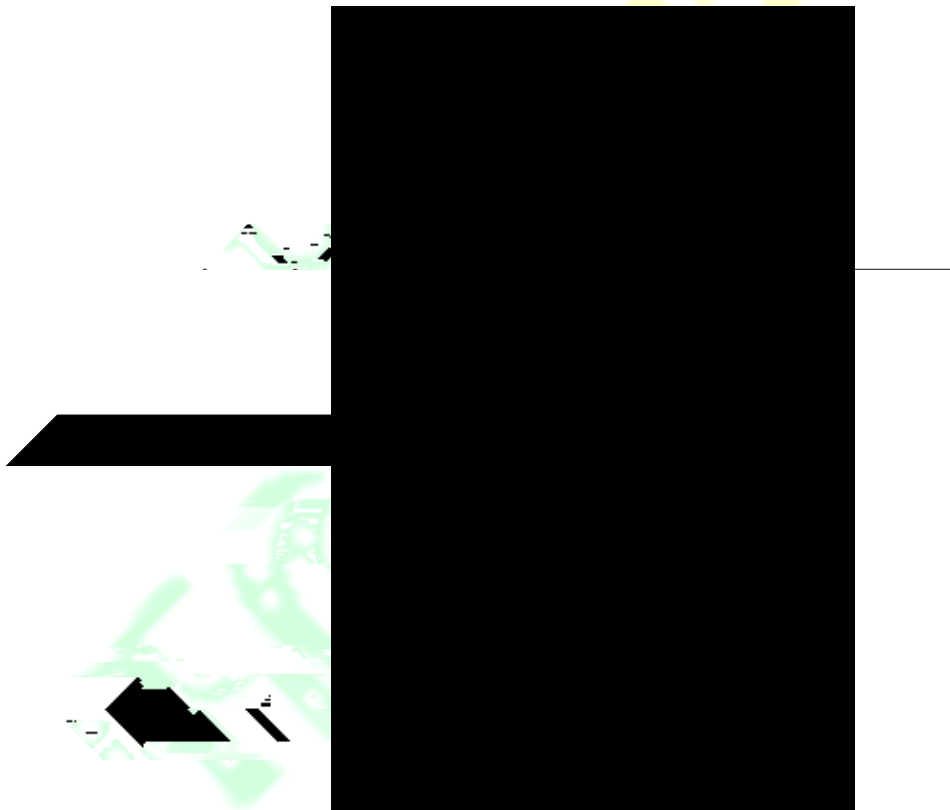
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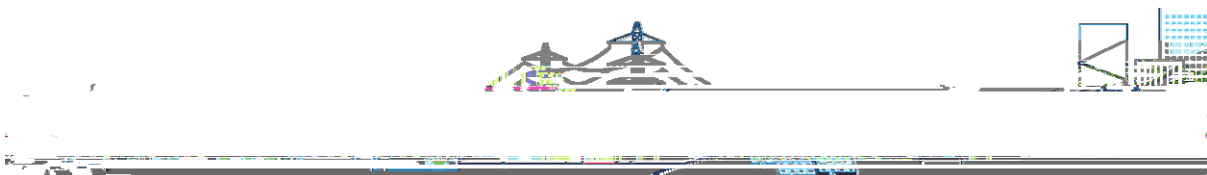
Date **2025-11-17**

TGPRO New Energy Technology Co., Ltd

Energy Storage Project Specification



TG-eBlock-417L



Factory address No. 16, Hengxing Road, Liaobu Town, Dongguan City, Guangdong Province

Specification For Approval

History of specification

[illegible]





Specification For Approval

EA E RVd3+5 ò Æ3sgG-600sD @C 01C 19wrqimxm ù~ 8cCpF ÆùDP965GS3D55C7808Q404351



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6.2 Cell Battery specifications

No	Item	General Parameter	Remark
1	Rated Capacity	314Ah	Standard discharge after Standard charge, we recommend 0.2C charge and 0.5C discharge , 0.2C 0.5C
2	Nominal Voltage	3.2V	Mean Operation Voltage
3	Internal Impedance	$\leq 0.18m\Omega$	Under 20 ± 5 Environment Temperature , the Usage Frequency of Fully Charge(1kHz) , Use AC Internal Impedance test machine to test 20 ± 5 1kHz
4	Standard charge	157A	Constant Current 0.5C ₅ A Constant Voltage 3.6V 0.02C ₅ A cut-off 0.5C ₅ A 3.6V 0.02C ₅ A
5	Rapid Charge	157A	Constant Current 1C ₅ A Constant Voltage 3.6V 0.02C ₅ A cut-off 1C ₅ A 3.6V 0.02C ₅ A
6	Standard Charge Cut-off Voltage	3.65V	Voltage of the battery when the Charge is stopped
7	Standard Discharge Cut-off Voltage	2.5V	Voltage of the battery when the discharge is stopped
8	Standard discharge	157A	Constant current 0.5C end voltage 2.5 V 0.5C 2.5V
9	Maximum discharge current	157A	Constant current 1C ₅ A end voltage 2.5 V 1C ₅ A 2.5V
10	Dimension	Thickness/ : $71.7 \pm 0.5mm$ Width/ $173.7 \pm 0.5mm$ Height/ $207.2 \pm 0.6mm$	
11	Weight	$5.6 \pm 0.3kg$	
12	Operating Temperature Range	Temperature: $-30 \sim 55$ Humidity $\leq 60 \pm 25\%RH$	
13	Storage Temperature Range	$-30 \sim 60$	



6.3.2 BMS Protect parameter

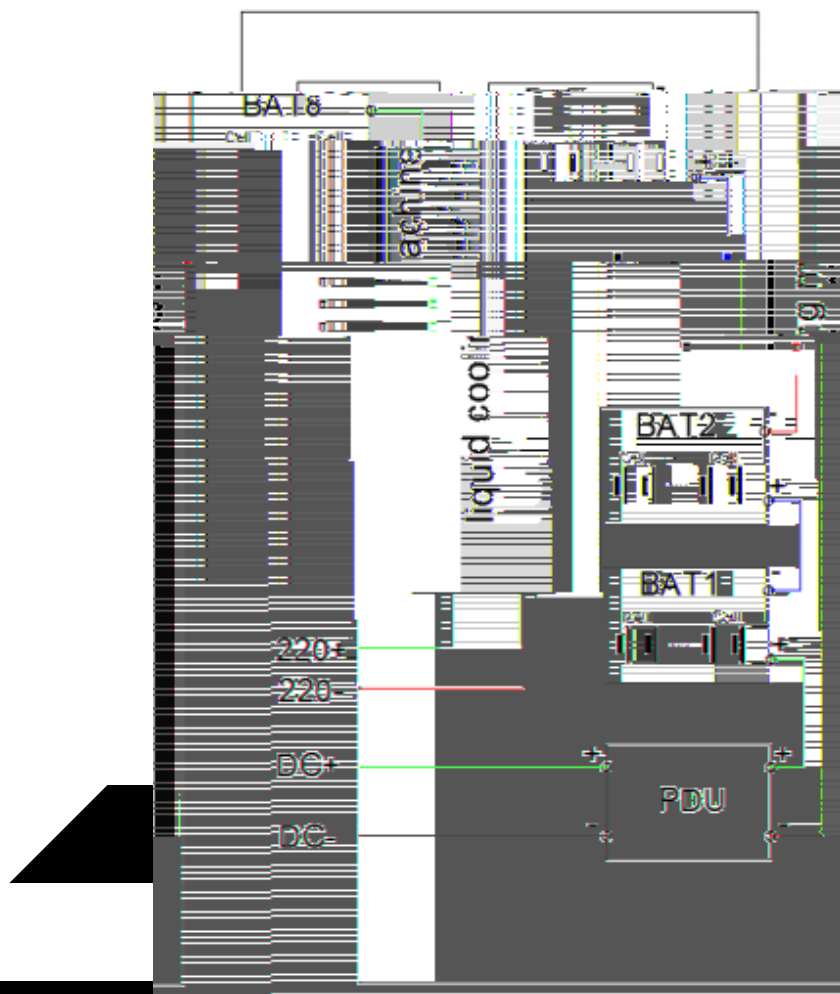
Items	Details	General Parameter
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6.4 System schematic diagram

TG-eBlock-417L



BMS communicate with the superior control system through the CAN bus, mainly composed of the following key components:

BMS >>> CAN

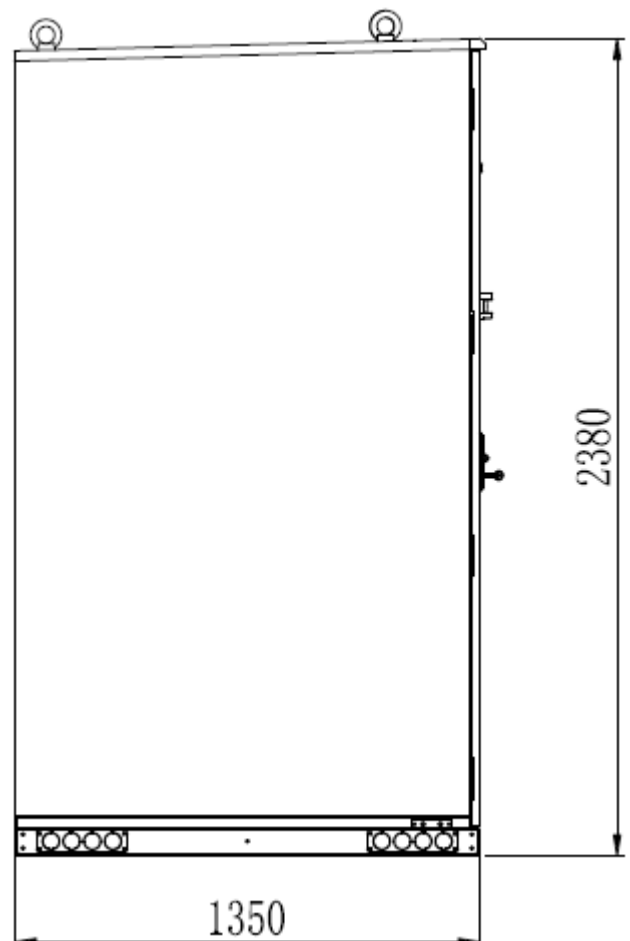
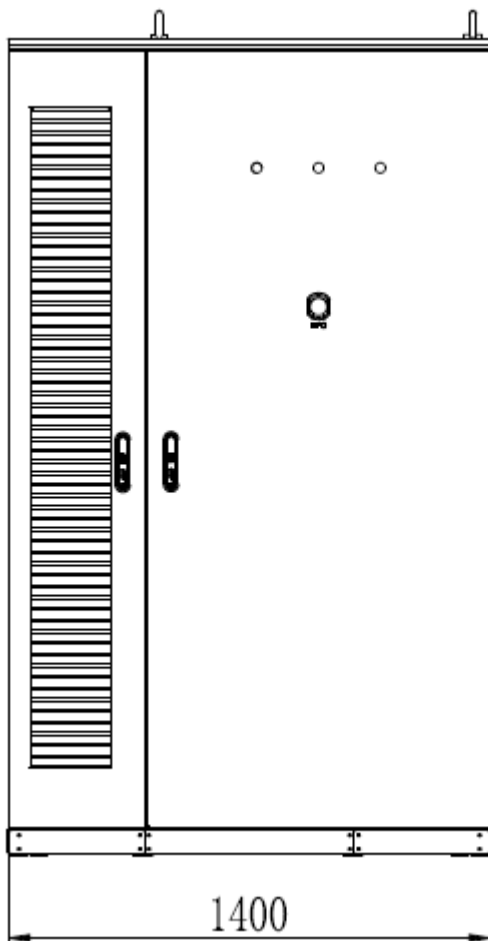
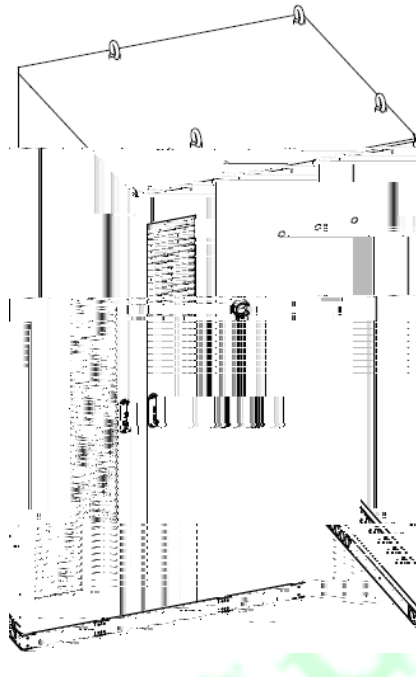
Main Battery Management Unit (BCM), integrated control and insulation detection module Battery Monitoring Unit (BMM)

BCM

BMM

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The surface of the battery pack should have no obvious scratches, burrs and mechanical scratches, and the exposed metal terminals should be free of oxidation and rust.



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Long Time Storage

If stored for a long time(don't used, exceed three months), the cell and pack should be stored in drying and cooling place. The PACK is to be stored in a condition that the temperature of 23 ± 2 and the humidity Of 45%- 75%. Long-term use of unused batteries to recharge every 3 months Ensure that the battery voltage is within the above range

, 3	PACK	23 ± 2	45%- 75%
3			

Li-ion battery operation instructions and precautions

Preface

This document of 'Handling Precautions and Guideline Li-ion Rechargeable Batteries' shall be applied to the battery cells manufactured by TGPRO.

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Note (1)

The customer is requested to contact TGPRO New Energy Technology Co., Ltd.. in advance, if and when the customer has any special requirements other than those described in this document. A [REDACTED] performance and safety under such conditions.

Note (2)

TGPRO New Energy Technology Co., Ltd. will take no responsibility for any accident when the cell is used under other conditions than those described in this Document.

Note (3)

TGPRO New Energy Technology Co., Ltd. will inform, in a written form, the customer of improvement(s) regarding proper use and handling of the cell, if it is deemed necessary.



Specification For Approval

1

Neither party shall disclose the contents of this technical Agreement to any third party, otherwise the non-breaching party shall have the right to hold the breaching party liable for breach of contract.

2

Any dispute arising from the performance of this Agreement shall be settled by both parties through negotiation. If no agreement can be reached through negotiation, the parties shall file a lawsuit with the people's court with jurisdiction at the place where this Agreement is signed.

3

Matters not covered in this Agreement and the Annex shall be negotiated by both parties separately.

