XGW Tech

TT48100LFP4U

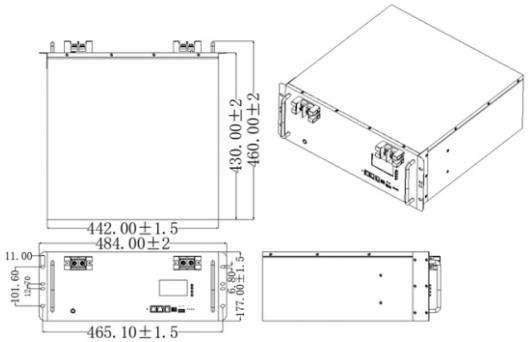
TT48100LFP4U Lithium $LiFePO_4$ Battery Pack

XGW TT series lithium ion battery is a powerful $LiFePO_4$ battery product,has the highest capacity in a standard casing available on the market.
The highly sophisticated and integrated BMS with very low self consumption,brings safety, functionality and ease of use together in a 19 inch standard telecom cabinet.
The batteries has been Widely used for banking system, telecom, server, data center, 5G, UPS, etc



Benefits of Lithium

- Rack-mounted design for 19 inch standard telecom cabinet;
- Support communication protocol RS232, RS485,CAN,MODBUS;
- Modular design, easy for installation and capacity expansion;
- Safest lithium LFP technology
- Excellent long life times
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life
- Maintenance free



Certifications and standards

a.Products

- UL1642(cells)
- FCC
- UN38.3
- IEC62619

b.MS certifications

- ISO9001
- ISO14001
- ISO45001

Specifications

Nominal Characteristic		
Battery model		TT48100LFP4U
Nominal voltage		48V
Typical capacity		100Ah(25℃,0.2C)
Typical energy		4800Wh
Cells type/chemistry		Prismatic-$LiFePO_4$
Gravimetic Energy density		106Wh/Kg
Dimensions	Length Width Depth	482mm 460mm 177mm
Reference Weight		48Kg
Case Material		Steel case with baking finish
Cycle life		>6000 cycles(80% DoD)
Electric Characristics		
Charge method		CC/CV
Charge voltage Range		52.9~54.75V
Max.continuous Discharge Current		100A
Max.continuous Charge Current		100A
Charging limit Current		20A
End of Discharge Voltage		40.5V
Operation Environment		
Charge Temperature		0℃~55℃
Discharge Temperature		-20℃~60℃
Storage Temperature		-10℃~50℃
Protection Class		IP21

BMS specifications

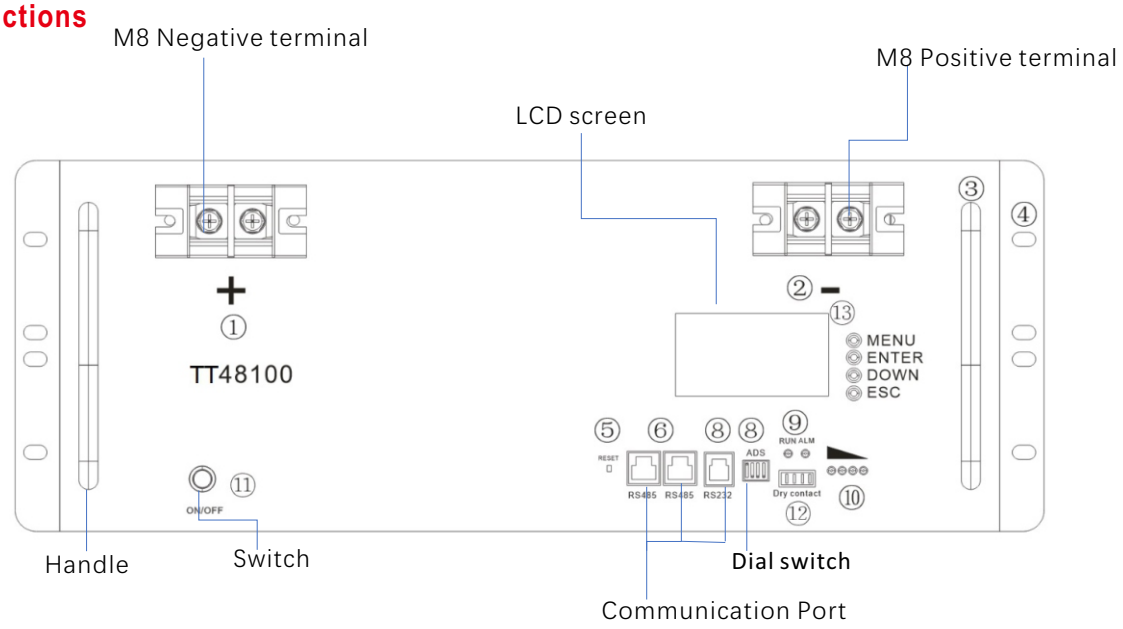
ITEM	CONTENT	CRITERION
Voltage	Charging voltage Balance voltage	3.65V/cell 3.45V/cell
Current	Max continues charge current Max continues discharge current	100A 100A
Over charge Protection	Over charge detection voltage Over charge detection delay time Over charge release voltage	3.70±0.05V/cell 1S 3.6±0.05V/cell
Over discharge Protection	Over discharge detection voltage Over discharge detection delay time Over discharge release voltage	2.7±0.05V/cell 1~3S 2.95±0.10V/cell
Over current protection	Over discharge current protection Detection delay time1 Over charge current detection current Detection delay time	110A 1000mS 110A 1000mS
Short Circuit Protection	Short Circuit Protection Current Detection delay time Release condition	350A,External short circuit 300uS Cut load or charging
Battery temperature	Over-temperature protection Release temperature	65±5℃ 50±5℃

Performance curve



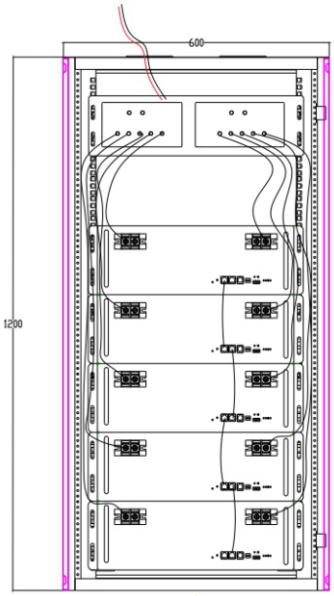
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Panel instructions



Parallel Communication

While in parallel communication, dial-up addresses of battery module are 1,2,3,4……14,15; By this method, we can be allowed to read each data depending on battery module. Any battery other than address 0 can be connected to the host computer; FF polling mode used as consulting mode.



Address Switch function (Only in Parallel)

Address code				ADD	PACK Definition	EXPLAINATION
1	2	3	4			
OFF	OFF	OFF	OFF	0		USE ALONE
ON	OFF	OFF	OFF	1	PACK	Use as master pack,can apply Telecom RS232
OFF	ON	OFF	OFF	2	PACK1	Use as slave pack1
ON	ON	OFF	OFF	3	PACK2	Use as slave pack2
OFF	OFF	ON	OFF	4	PACK3	Use as slave pack3
ON	OFF	ON	OFF	5	PACK4	Use as slave pack4
OFF	ON	ON	OFF	6	PACK5	Use as slave pack5
ON	ON	ON	OFF	7	PACK6	Use as slave pack6
OFF	OFF	OFF	ON	8	PACK7	Use as slave pack7
ON	OFF	OFF	ON	9	PACK8	Use as slave pack8
OFF	ON	OFF	ON	10	PACK9	Use as slave pack9



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