

Battery Specification

电池说明书

MODEL

型 号: 70.4V105Ah--22S1P

Nominal Capacity

标 称 容 量: 105Ah

Project number

立项编号:

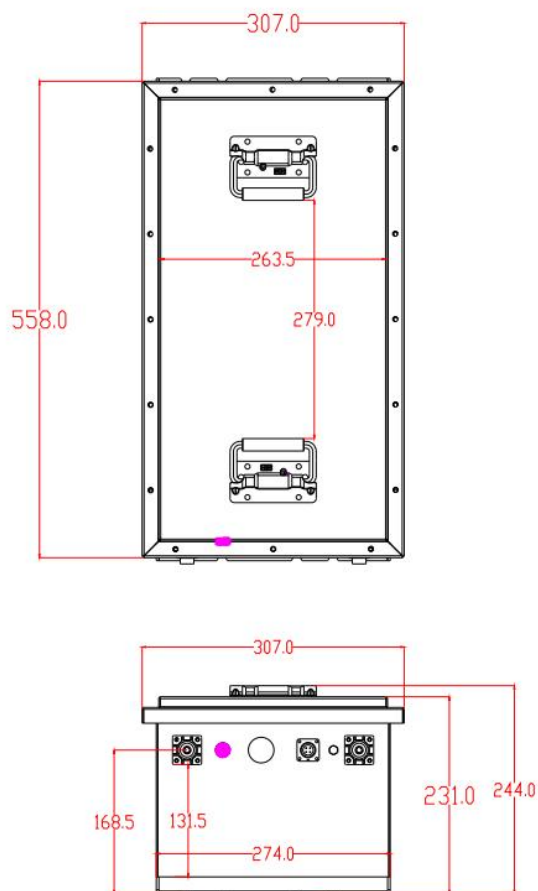
Total Page

文件页数: 7 页

Registered 编制	Checked 审核	Approved 批准
Customer name 客户名称	Sample confirmation 样品确认	Determine the date 确认日期



1.Initial Size 初始尺寸



单位: mm

比例 1:1

产品型号: 70.4V105-UTV越野车

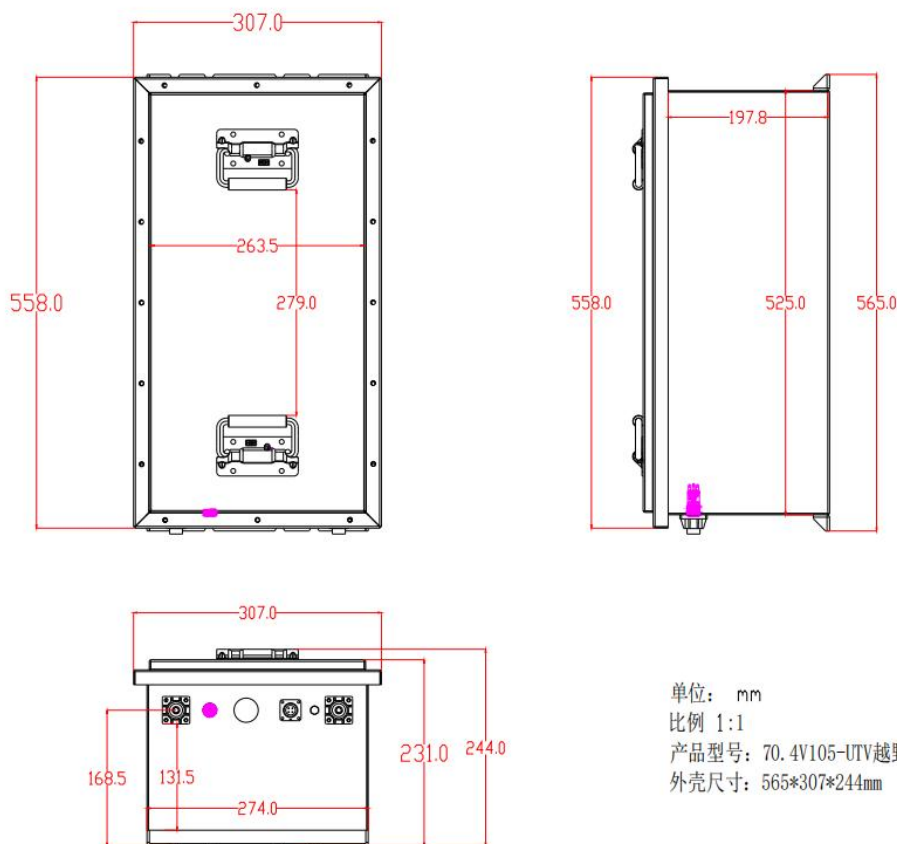
外壳尺寸: 565*307*244mm

Product Size产品尺寸: mm,

T (Total length) (长度)	565.0±2.0	W(Width) (宽度)	307.0±2.0	H(Height) (高度)	244±2.0
L (lead wire length) 引出线长	/	terminal 端子	M8	Power 功率	7392Wh
PCM Protection Board PCM 保护板	DL-R24S-F16S300ATJ 达锂-16S-300A-软件保护板带蓝牙通讯			Electric cell 电芯	亿纬 105Ah
Appearance 外观	Gray sheet metal shell 灰色钣金壳				



2. Battery picture 电 池 图 片



3. Product Specifications 产品规格参数

No. 序号	Catalog 目录	Specification Requirements 规格要求
3.1	Typical capacity 典型容量	105Ah (0.2C discharge) 105Ah (0.2C 放电)
	Minimum capacity 最小容量	105Ah (0.2C discharge) 105Ah (0.2C 放电)
3.2	Nominal voltage 标称电压	70.4V
3.3	Shipping Voltage 出货电压	72~75V
3.4	Standard charging voltage 标准充电电压	CC/CV,21A,80.3V (0.2Ccharging) CC/CV,21A,80.3V (0.2C 充电)
3.5	Standard discharge 标准放电	CC,21A,55V (0.2Cdischarge) CC,21A,55V (0.2C 放电)
3.6	Charge cutoff voltage 充电截止电压	80.3V
3.7	Charge cutoff current 充电截止电流	0.02C 2A (At CV mode)
3.8	Discharge cut-off voltage	55V

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	放电截止电压		
3.9	Charge time 充电时间	5-6 hours (standard charge) 5-6 小时(0.2C)	
3.10	Fast charge/discharge current 快速充放电电流	52.5A (0.5C)	
3.11	Maximum continuous charge/discharge current 最大持续充放电电流	105A (1C)	
3.12	Recommended charge current 建议充电电流	21A (0.2C)	
3.13	Maximum load/inverter power 最大负载/逆变器功率	7392W	
3.14	Initial internal resistance 初始内阻	Max: ≤30mΩ	
3.15	Weight 重量	(约): Net weight 净重 55.6±0.5 Kg, Gross weigh 毛重 65.5±0.5Kg	
3.16	Operating temperature range 工作温度范围	1: Charge 0° C~50° C (32° F~122° F) 2: Discharge -20° C~60° C (-4° F~140° F) 3: Storage -10° C~50° C (14° F~122° F) 4: Low temperature cut-off protection (charging) 0° C±4° C (32° F±39.2° F) 5: Low temperature cut-off protection (discharge) -20° C±4° C (-4° F±39.2° F) 1: 充电 0° C~50° C (32° F~122° F) 2: 放电 -20° C~60° C (-4° F~140° F) 3: 存储 -10° C~50° C (14° F~122° F) 4: 低温切断保护 (充电) 0° C±4° C (32° F±39.2° F) 5: 低温切断保护 (放电) -20° C±4° C (-4° F±39.2° F)	
3.17	Cycle life 循环寿命	>2000 cycles (100% DoD) 3000 cycles, 80% DoD >2000 个周期 (100%DoD) 3000 个周期, 80%DoD	
3.18	Waterproof rating 防水等级	IP65	
3.19	Appearance 外观	No scratches, deformation, oil, leakage, breakage 无划痕、变形、油污、漏液、破损	
3.20	Terminal type 端子类型	M8	
3.21	Charger 充电器	输入电压: 100-240V,输出: 78.1V15A,美规接头	
3.22	蓝牙	支持蓝牙功能-APP-VATRER,TEMGO 兼容	
3.23	屏幕	EYD-LCD01,单机显示屏	



4、Basic parameters of protection board 保护板基本参数

3	单体过充保护 Single Cell over-charge protection	单体过充 1 级告警电压 Single Cell over-charge level 1 alarm voltage	3.65 ± 0.05	V	可设置 Can be set up
		单体过充 1 级告警延时 Single Cell over-charge level 1 alarm delay	1 ± 0.8	S	
		单体过充 1 级告警恢复电压 Single Cell over-charge level 1 alarm recovery voltage	3.55 ± 0.05	V	
		单体过充 1 级告警恢复延时 Single Cell over-charge level 1 alarm recovery delay	1 ± 0.8	S	
		单体过充 2 级保护电压 Single Cell over-charge Level 2 protection voltage	3.75 ± 0.05	V	可设置 Can be set up
		单体过充 2 级保护延时 Single Cell over-charge level 2 protection delay	1 ± 0.8	S	可设置 Can be set up
		单体过充 2 级保护恢复电压 Single Cell over-charge level 2 protection recovery voltage	3.65 ± 0.05	V	可设置 Can be set up
		单体过充 2 级保护恢复延时 Single Cell over-charge level 2 protection recovery delay	1 ± 0.8	S	
		单体过充 3 级保护电压 Single Cell over-charge Level 3 protection voltage	3.80 ± 0.05	V	可设置 Can be set up
		单体过充 3 级保护延时 Single Cell over-charge level 3 protection delay	1 ± 0.8	S	可设置 Can be set up
		单体过充 3 级保护恢复电压 Single Cell over-charge level 3 protection recovery voltage	3.70 ± 0.05	V	可设置 Can be set up
		单体过充 3 级保护恢复延时 Single Cell over-charge level 3 protection recovery delay	1 ± 0.8	S	

4	单体过放保护 Single Cell over-discharge protection	单体过放 1 级告警电压 Single Cell over-discharge level 1 alarm voltage	2.3 ± 0.05	V	可设置 Can be set up
		单体过放 1 级告警延时 Single Cell over-discharge level 1 alarm delay	1 ± 0.8	S	
		单体过放 1 级告警恢复电压 Single Cell over-discharge level 1 alarm recovery voltage	2.4 ± 0.05	V	
		单体过放 1 级告警恢复延时 Single Cell over-discharge level 1 alarm recovery delay	1 ± 0.8	S	
		单体过放 2 级保护电压 Single Cell over-discharge level 2 protection voltage	2.2 ± 0.05	V	可设置 Can be set up
		单体过放 2 级保护延时 Single Cell over-discharge level 2 protection delay	1 ± 0.8	S	可设置 Can be set up
		单体过放 2 级保护恢复电压 Single Cell over-discharge level 2 protection recovery	2.3 ± 0.05	V	可设置 Can be set up

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5	充/放电过流保护 Charge/discharge over-current protection	放电过流 1 级告警电流 Discharge over-current level 1 alarm current	360±3%	A	可设置 Can be set up
		放电过流 1 级告警延时 Discharge over-current level 1 alarm delay	1±0.8	S	
		放电过流 2 级保护电流 Discharge over-current level 2 protection current	450±3%	A	可设置 Can be set up
		放电过流 2 级保护延时 Discharge over-current level 2 protection delay	55±0.8	S	可设置 Can be set up
		放电过流 3 级保护电流 Discharge over-current level 3 protection current	900±3%	A	可设置 Can be set up
		放电过流 3 级保护延时 Discharge over-current level 3 protection delay	1	S	可设置 Can be set up
		保护解除条件 Release condition	移除负载解除 Removing the load is lifted		
		充电过流 1 级告警电流 Charging over-current level 1 alarm current	360±3%	A	可设置 Can be set up
		充电过流 1 级告警延时 Charging over-current level 1 alarm delay	1±0.8	S	
		充电过流 2 级保护电流 Charging over-current level 2 protection current	450±3%	A	可设置 Can be set up
		充电过流 2 级保护延时 Charging over-current level 2 protection delay	55±0.8	S	可设置 Can be set up
		充电过流 3 级保护电流 Charging over-current level 3 protection current	900±3%	A	可设置 Can be set up
		充电过流 3 级保护延时 Charging over-current level 3 protection delay	1	S	可设置 Can be set up
		保护解除条件 Release condition	移除充电器解除 Remove the charger to release		
		短路保护条件 Short circuit protection conditions	外部负载短路 External load short circuit		
		短路保护延时 Short circuit protection delay	10~1000	uS	实际以客户电池寄

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7	温度保护 Temperature protection	充电高温 1 级告警温度 Charging high temperature level 1 alarm temperature	60	°C	可设置 Can be set up
		充电高温 1 级告警温度延时 Charging high temperature level 1 alarm temperature delay	1±0.8	S	
		充电高温 2 级保护温度 Charging high temperature level 2 protection temperature	65	°C	可设置 Can be set up
		充电高温 2 级保护温度延时 Charging high temperature level 2 protection temperature delay	1±0.8	S	可设置 Can be set up
		充电高温 3 级保护温度 Charging high temperature level 3 protection temperature	75	°C	可设置 Can be set up
		充电高温 3 级保护温度延时 Charging high temperature level 3 protection temperature delay	1±0.8	S	可设置 Can be set up
		充电高温 1 级告警释放温度 Charging high temperature level 1 alarm release temperature	55	°C	
		充电高温 1 级告警释放延时 Charging high temperature level 1 alarm release delay	1±0.8	S	
		充电高温 2 级保护释放温度 Charging high temperature level 2 protection release temperature	60	°C	可设置 Can be set up
		充电高温 2 级保护释放延时 Charging high temperature level 2 protection release delay	1±0.8	S	可设置 Can be set up
		充电高温 3 级保护释放温度 Charging high temperature level 2 protection release temperature	65	°C	可设置 Can be set up
		充电高温 3 级保护释放延时 Charging high temperature level 2 protection release delay	1±0.8	S	可设置 Can be set up

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.