

Competition comparison-LFP battery

No	Type of lamp	Comparison item	Trismart's product		Peer product	Remark
			example model	value		
1	Solar led lights	Type of cell	SZG551	lithium iron phosphate cell	lithium iron phosphate cell /lithium ion cell	Trismart's cells are made by listed company
		Brand of cell		Gotion	/	
		Specification of cell		Prismatic cell	26650/32650/18650 Cylindrical cell	
		Capacity of cell		3.2V20Ah 3.2V30Ah 3.2V40Ah	3.2V3Ah (26650) 3.2V5~6Ah (32650) 3.7V2~2.5Ah (18650)	1) For the same capacity battery, the number of cells of Trismart's battery is small, such as 40Ah battery, Trismart's battery only need one cell, and 32650 battery needs eight cells. 2) The more the number of cells, the poorer the consistency, the poorer the safety, the shorter the lifespan. The actual capacity of the battery is much smaller than that of the single cell.
		Application of cell		New energy vehicle/electric motor/energy storage/solar led street light	Solar led street light	Trismart's battery is a power battery. The discharge depth is deeper, charge and discharge current is larger.



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		Internal resistance		3 mΩ	25 mΩ	1) At the same charge current, internal resistance of Trismart's battery consumes less energy (converted to heat), battery heating is small. 2) At the same discharge current, internal resistance of Trismart's battery consumes less energy (converted to heat), battery heating is small.
		Lifespan		≥3000 cycles	≥1500~2000 cycles (LFP) ≥800~1000 cycles (NCM)	1) Trismart's battery has fewer cells and better consistency of battery. 2) Trismart's battery has small internal resistance, low heat, and high temperature resistance is better

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