



TCU Battery-EU Lithium / NCM

25.6V4Ah / 25.6V6Ah / 25.6V8Ah

The ideal for self-powered TCU of new or replacement smart solar tracker systems

Unmatched flexibility

- Stable availability power to move tracker on the dark and cloud days
- Wide operating temperature ranges with high accuracy heater / insulating film
- Customizable dimension, capacity and voltage to match your needs
- Built-in communication option for selecting data on the performance of battery

Configuration options

- Variety of choice at cylindrical cell - 18650 / 26700 / 32700
- Provide BMS application development support, with increasing level of extended protection
- Easy adaption to wiring connection type for complete set on your design
- Electro chemistry at LFP or NCM balancing between cost and lifetime

Longer lifetime

- Original design complaint with IEC62133 for battery and IEC62817 for solar site
- Cell balancing effectively reduce battery degradation
- Easy to uninstall the battery
- PV film wrap or battery enclosure suitable for weather withstanding on site

Designed to integrate into new or existing

TCU at different models. Ensure the self-powered TCU moving with durable DC power in low irradiance, even temperature at - 55°C in high altitude terrain

The battery cabinet size for TCU vary greatly, so we tailor our battery pack solutions to the specific characteristics of each design, mechanical, safety strategy, and installation conditions.

Guarantee the longest warranty period considering the specific charge and discharge condition. We offer technical advice to optimize battery health and reduce maintenance cost.

Technical data	Moon-18-3.2	Moon-26-4-H	Moon-26-4	Moon-26-8	Moon-32-6
Cell Type					
Chemistry	18650 NCM	26700 LFP	26700 LFP	26700 LFP	32700 LFP
Pack configuration	7S1P	8S1P	8S1P	8S2P	8S1P
Electrical Data					
Normal Voltage	25.2V	25.6 V			
Normal Capacity	3.2 Ah	4.0 Ah	4.0 Ah	8.0 Ah	6.0 Ah
Charge / Discharge Current	1.6 A / 1.6A	0.8 A / 2A	0.8 A / 2A	1.6 A / 4A	1.2 A / 3A
Charging Voltage	29.4V	28.4 V to 29.2 V			
Discharging Voltage	19.25V	20 V			
Max Discharging Current	6.4 A (5 ms)	8A (5 ms)	8A (5 ms)	16A (5ms)	12A (5ms)
Internal Resistance	≤150 mΩ				
General Data					
Dimension (L/W/H)	77*40*81mm	109*57*86mm	109*57*86mm	214*57*86mm	135*70*86mm
Weight	0.47 kg	0.8 kg	0.85 kg	1.75 kg	1.25 kg
Charging Temperature	0°C to 45°C	-20°C to 60°C	0°C to 60°C	0°C to 60°C	0°C to 60°C
Discharging Temperature	-20°C to 60°C	-40°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Heater Power	-	5W	-	-	-
Design Life	5 Years (25°C 80%DOD@0.2C)				
Cable Length	100mm				
NTC	10KΩ ±5% B=3435 (25°C)				
PTC	JK30-900 30V/9A (20°C)				
Connectors	Molex / TE / CJT				
Balancing Active Voltage / Current	4.15V/36 mA	3.55 V / 36 mA			
Overdischarge Voltage	2.7V to 2.8V	2.15 V to 2.25 V			

Specifications at nominal conditions Last revised: 01/2026