

Lithium Battery Module for Energy Storage System

GP-LFP-51.2V240Ah

Technical Summary

Item	Specification
Chemistry	Lithium Iron Phosphate
Cell	CATL LFP 3.2V 240Ah
Configuration	1P16S
Rated Energy	12.29 kWh [<small>@0.25C; 25degC</small>]
Nominal Voltage	51.2 V
Voltage Range	Min: 44.8 V Max: 57.6 V
Cycle life	4000 Cycles [<small>@80% DoD; 25degC; 0.25C</small>]
Enclosure	Aluminium
Weight	<100 kg
Dimensions	Approximately 730mm x 500mm x 250mm
Standard Charge Condition	60A charge current till total 57.6V (or single cell 3.65V) [<small>@0.25C</small>] 57.6V (or single cell 3.65V) charge until 12A charge current [<small>@0.25C</small>]
Standard Discharge Condition	60A discharge current until total 44.8V (or single cell 2.5V) [<small>@0.25C</small>]
Communication Protocol	Modbus
Operation Temperature Range	Min: 0 °C Max: 55 °C
Storage Temperature Range	Min: -10 °C Max: 55°C
Integrated BMU	Battery Monitoring Unit provides protection, sensor and communication with Battery Central Unit

