

GenPlus

Powering Our Future

Smart Battery Solution – Smart Li-ion Battery Series

Model: LPF-48100

Rev: 001

GENPLUS LPF series is a complete range of 48V LiFePO₄ (Lithium Iron phosphate) battery products, for a wide variety of applications, such as telecom base station, UPS, renewable energy system, etc., with advanced life, standard size, light weight and strong environmental adaptability.

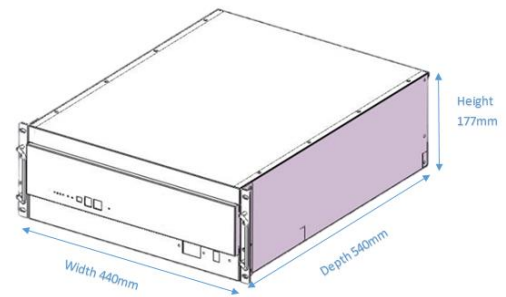
For standard lithium battery module, BMS is applied to monitor voltage, current, temperature of cells and module, take protections against over-charge, over-discharge, over-current, over-temperature, under-temperature and short circuit, etc., and provide cell balancing and current limitation during charging process to ensure a reliable safety and excellent performance.

For advance operation with multiple battery modules, Genplus Battery Monitoring System provide real time monitoring for all the battery modules with SNMP, MODBUS communication protocol.

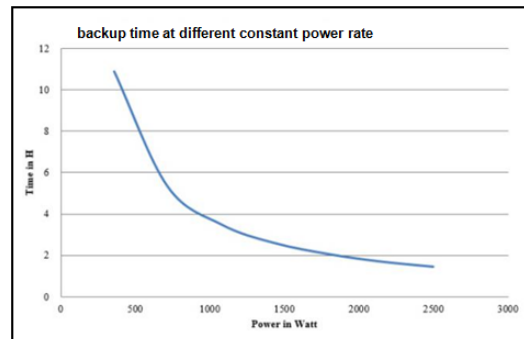
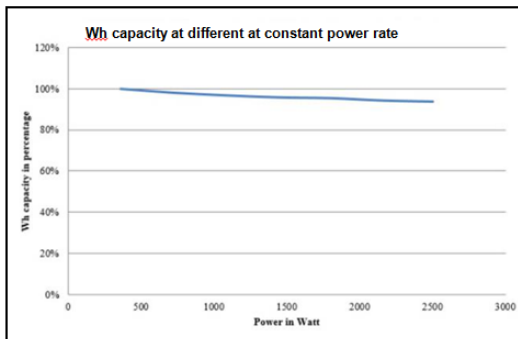
Customized Solutions for ruggedized battery modules are available upon request.



Dimensions-mm



Performance Curves



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Specifications

Rated Voltage	48V	
Rated Capacity	100Ah (C ₅ , 0.2C to 40.5V @ 25 ° C)	
Discharge Current (Max.)	100A	
Discharge End Voltage	40.5V	
Charge Current (Recomm.)	20A	
Charge Current (Max.)	50A	
Charge Voltage	54±0.5V	
Dimensions	Width	440.0 mm
	Depth	540.0 mm
	Height	177.0 mm (4U)
Typical Weight	65 Kg	

Layout of Front Panel

Status Indicators	SOC / ALM / RUN
Communication Ports	RS232 / RS485
Communication in Parallel	15 modules in Parallel
Reset Key	Available
Terminal Size	M6 (Screw size)
LCD Screen	Optional
Breaker	Optional
Maintenance Interface	Optional

Operation Environments

Temperature Range	Discharge	-20 to + 60 ° C
	Charge	0 to + 60 ° C
	Storage	0 to + 40 ° C
Temperature Recommendation	Discharge	+15 to + 35 ° C
	Charge	+15 to + 35 ° C
	Storage	+15 to + 30 ° C
Humidity	5% to 95%	
