PA-LEP1270.R002

Dimensions

Length	150mm	+/-2mm
Width	65mm	+/-1mm
Height	88mm	+/-2mm
incl. contacts	95,4mm	+/-2mm

IEC62133-2:2017

MH45979 4)

Data for Pack			
Nominal voltage		12.8 V	10V - 14.6 V
Nominal capacity		7600 mAh	typical after 3 cycles; min. 7,5Ah @ 1,5A load
IEC designation		4IFpR27/66-2	LiFePO4
Internal resistance pack (initial)		< =75 mΩ	@ 20 °C measured @ 1000Hz AC
Charge voltage		14.6 V	max. voltage; cut-off current 76 mA
Charge current	standard	1.5 A	10 °C < T < 45 °C 2)
	rapid	3.8 A	10 °C < T < 45 °C 2)
Discharge	standard	1.5 A	-20 °C < T < 60 °C 1), 2)
	cont.	7.6 A	-20 °C < T < 55 °C 1), 2)
	cont.	10 A	-20 °C < T < 40 °C 1), 2)
	max. peak 1	14 A	-20 °C < T < 60 °C 1), 2) tmax < 50 ms @ 20 °C
Cycle No.	typ. >	1500	@20°C charge current 1,5A / discharge current 7,6A
Short circuit current		~200 A	
Connector	Faston Type	F1 / 4.8 mm	
Housing	flammability	UL94 V-0	
Storage @ 30% SOC	months	12	storage @ 20°C, (state of charge recheck min every 12 month req.)
Weight		1050 g	± 5%
Watt-hour rating		97.28 Wh	acc. to UN38.3 Certificate from cell

1) below 0°C with limited performance in current output and available capacity 2) Limited by cell temperature, not ambient temperature

4) UL conditions of acceptability to be considered in end application

Limitations by Safety Unit (SU)			
over voltage (per cell)	cut off	3.70 V	± 25 mV @ 20°C
	release	3.60 V	± 50 mV @ 20°C
under voltage (per cell)	cut off	2.20 V	± 100 mV @ 20°C
	release	2.50 V	± 100 mV @ 20°C
Current Limit 1 by SU		15.6 A	typical @ 20 °C; reaction time typ. 100 ms
Current Limit 2 by SU		31.2 A	typical @ 20 °C; reaction time typ. 17 ms
Short Circuit Protection		93.6 A	typical @ 20 °C; reaction time typ. 1 ms
Charge Current Protection		9.4 A	typical @ 20 °C; reaction time typ. 8 ms
Current Protection Release			Load remove @ discharge / Charger remove @ charge
Temperature protection against charge		T<5°C or T>50°C	± 5 K; temperature @ cell ; current is stopped outside range
Temperature protection against discharge		T > 65 °C	± 5 K; temperature @ cell ; current is stopped outside range
Power consumption	active	< 90 µA	@ U > 10 V and 20 °C
	shutdown	< 20 µA	@ U < 8.9 V and 20 °C

Recommended Charger

CC/CV Charger 4s LiFePO4: Standby use 13,6V / initial max. 1,5A | cycle life 14,4V to 14,6V initial max. 3,8A, cut off @ 125mA; for optimal pack balance up to 60min. constant voltage 14,4V @ limited current of max. 70mA can be applied, then stop charge

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