

PA-LEP2430.R001

preliminary



Dimensions

Length	150mm	+/-2mm
Width	65mm	+/-1mm
Height	90mm	+/-2mm
incl. contacts	97mm	+/-2mm

Data for Pack

Nominal voltage		25.6 V	20V – 29.2 V
Nominal capacity		3000 mAh	typical
IEC designation		8IFpR27/66	LiFePo4
Internal resistance pack		150 mΩ	±25 mΩ @ 20 °C
Charge voltage		29.2 V	max. voltage; cutoff current 80 mA
Charge current	standard	0.6 A	10 °C < T < 45 °C ²⁾
	rapid	6 A	10 °C < T < 45 °C ²⁾
Discharge	standard	6 A	-20 °C < T < 60 °C ^{1), 2)}
	cont.	30 A	-20 °C < T < 55 °C ^{1), 2)}
	max. peak 1	80A	-20 °C < T < 60 °C ^{1), 2)} tmax < 50 ms @ 20 °C
Short circuit current		~300 A	
Connector	Faston Type	F2 / 6.3mm	
Weight		1050 g	± 5%
Watt-hour rating		76.8 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

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		40 A	typical @ 20 °C; reaction time typ. 100 ms
Current Limit 2 by SU		80 A	typical @ 20 °C; reaction time typ. 50 ms
Short Circuit Protection		160 A	typical @ 20 °C; reaction time typ. 10 ms
Charge Current Protection		-24 A	typical @ 20 °C; reaction time typ. 640 ms
Current Protection Release			Load remove @ discharge / Charger remove @ charge
Temperature protection against charge		T<2°C or T>50°C	± 5 K; temperature @ cell ; current is stopped outside range
Temperature protection against discharge		T > 70 °C	± 5 K; temperature @ cell ; current is stopped outside range
Power consumption	active	< 250 μA	@ U > 20 V and 20 °C
	shutdown	< 100 μA	@ U < 17,8V and 20 °C

Recommended Charger

CC/CV Charger 8s LiFePo4: Standby use 27,2V / initial max. 3A | cycle life 28,8V to 29,2V initial max. 6A, cut off @ 80mA; for optimal pack balance up to 60min. constant voltage 28,8V @ limited current of max. 70mA can be applied, then stop charge

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