## **PA-LEP1240**





## **Dimensions**

 Length
 245mm
 +/-2mm

 Width
 170mm
 +/-1mm

 Height
 72mm
 +/-2mm

## preliminary datasheet may differ from final edition

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	Data for Pack						
	Nominal voltage		12.8 V	10V - 14.6 V			
	Nominal capacity		40Ah	typical			
	IEC designation		4IFpR27/66-10	LiFePO4			
	Internal resistance pack (initial)		< 32 mΩ	@ 20 °C measured @ 1000Hz AC			
	Charge voltage		14.6 V	max. voltage; cut-off current 760mA			
	Charge current	standard	5A	10 °C < T < 45 °C <sup>2)</sup>			
		rapid	15A	10 °C <t 2)<="" 45="" <="" td="" °c=""></t>			
	Discharge	standard	8A	-20 °C <t 1),="" 2)<="" 60="" <="" td="" °c=""></t>			
		cont.	20A	-20 °C <t 1),="" 2)<="" 55="" <="" td="" °c=""></t>			
		cont.	40A	-20 °C <t 1),="" 2)<="" 45="" <="" td="" °c=""></t>			
		max. peak 1	60A	-20 °C < T < 60 °C			
	Cycle No.	typ. >	1500	@20°C charge current 5A / discharge current 7.6A			
	Short circuit current		~380A				
	Connector	TE	VAL-U-LOK				
	Housing	flammability	UL94 V-0				
	Storage @ 30% SOC	months	12	storage @ 20°C, (state of charge recheck min every 12 month req.)			
	Weight		3.45 kg	± 5%			
	Watt-hour rating		486.4Wh	acc. to UN38.3 Certificate from cell			

<sup>1)</sup> 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	Current Limit 1 by SU		typical @ 20 °C; reaction time typ. 100 ms			
Current Limit 2 by SU		240A	typical @ 20 °C; reaction time typ. 17 ms			
Short Circuit Protection	Short Circuit Protection		typical @ 20 °C; reaction time typ. 500μs			
Charge Current Protection	O .		typical @ 20 °C; reaction time typ. 11ms			
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 again	inst discharge	T > 65 °C	± 5 K; temperature @ cell ; current is stopped outside range			
Dower consumption	active	< 90 μΑ	@ U > 10 V and 20 °C			
Power consumption	shutdown	< 20 μΑ	@ U < 8.9 V and 20 °C			

## **Recommended Charger**

CC/CV Charger 4s LiFePO4: Standby use 13,6V / initial max. 5A | cycle life 14,4V to 14,6V initial max. 15A, cut off @ 760mA; for optimal pack balance up to 60min. constant voltage 14,4V @ limited current of max. 2A can be applied, then stop charge