PA-LEP2420.SMB.R001

Dimensions

Length	245mm	+/-2mm
Width	170mm	+/-1mm
Height	72mm	+/-2mm

preliminary datasheet may differ from final edition

Data for Pack						
Nominal voltage		25.6 V	20 V - 29.2 V			
Nominal capacity		20 Ah	typical			
IEC designation		8IFpR27/66-5	LiFePO4			
Internal resistance pack (initial)		< 48 mΩ	@ 20 °C measured @ 1000 Hz AC			
Charge voltage		29.2 V	max. voltage; cut-off current 190 mA			
Charge current	standard	3.8 A	10 °C < T < 45 °C 2)			
	rapid	10 A	10 °C < T < 45 °C 2)			
Discharge	standard	10 A	-20 °C < T < 60 °C 1), 2)			
	max. cont.	15.2 A	-20 °C < T < 60 °C 1), 2)			
	max. peak 1	45 A	-20 °C < T < 60 °C 1), 2) tmax < 20 ms @ 20 °C			
Cycle No.	typ. >	2000	@20°C charge current 3.8A / discharge current 10 A			
Short circuit current		~380 A				
Connector	TE / AMP	VAL-U-LOK 1-1586018-0	Pin 1,2,3	GND	Pin 6,7,8	Pack+
			Pin4	I²C Data	Pin 9	SYSPRES (optional)
			Pin5	I2C Clock	Pin 10	NTC (optional)
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		512 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	3.625 V	± 25 mV @ 20°C
	release	3.475 V	± 50 mV @ 20°C
under voltage (per cell)	cut off	2.60 V	± 100 mV @ 20°C
	release	2.70 V	± 100 mV @ 20°C
Current Limit 1 by SU		16 A	typical @ 20 °C; reaction time typ. 10 s
Current Limit 2 by SU		25 A	typical @ 20 °C; reaction time typ. 20 ms
Short Circuit Protection		50 A	typical @ 20 °C; reaction time typ. 1 ms
Charge Current Protection		10 A	typical @ 20 °C; reaction time typ. 4 s
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	< 1.5 mA	@ U > 20 V and 20 °C
	sleep	< 250 µA	@ U > 20 V and 20 °C
	shutdown	< 20 µA	@ U < 17 V and 20 °C

Recommended Charger

CC/CV Charger 8 cell LiFePO4: Standby use 27.2 V / initial max. 4 A | cycle life 28.8 V to 29.2 V initial max. 10 A, cut off @ 190 mA;

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No guarantee for zero failure status of given information inside this document. Please see/request detailed specification for finally valid data.