

The supplier acknowledges that, with the acceptance of the drawing, he is in a position to manufacture the illustrated part in accordance with the drawing in accordance with the requirements of the customer. The customer is not responsible for any damage caused by the use of the drawing. The customer is not responsible for any damage caused by the use of the drawing.

Technische Daten/ technical data	:	Akkupack/ batterypack
Chemie/ chemistry	:	Lithium Ion
Model name	:	18650 2S1P 21NR19/66
Zellenzahl/ no. of cells	:	2 Zellen/ cells
Zellentyp/ cell type	:	LG Chem <u>INR18650 MJ1</u>
Kapazität/ capacity	:	nom. 3500mAh discharge at 0.2C min. 3350mAh discharge at 0.2C ta20°C; EV(Discharge End Voltage): 2.5V per cell
Innenwiderstand/ impedance	:	< 140mOhm (battery and safetyboard)
Nominalspannung/ nominal voltage	:	7.27V
Standard Ladespannung/ standard charge voltage	:	8.4V
Standard Entladespannung/ standard discharge voltage	:	5.0V
Nominaler Ladestrom/ nominal charge current	:	0.5C
Maximaler Ladestrom/ maximum charge current	:	1C
Ladeendstrom/ charge end current	:	0.01C recommended
Maximaler Entladestrom/ maximum discharge current	:	5000mA (limited by safetyboard)
Anwendungstemperaturbereich/ ambient temperature range	:	0°C..+45°C charge -20°C..+60°C discharge -20°C..+30°C storage max. 1 year -20°C..+45°C storage max. 3months
Selbstentladung/ self discharge	:	≤ 5% / month at 20°C ≤ 10% / month at 30°C ≤ 20% / month at 40°C
Standards/	:	UN 3480, Subsection 38.3 All cells and batterypacks type tested according to UN manual of test and criteria subsection 38.3 IEC62133-2:2017

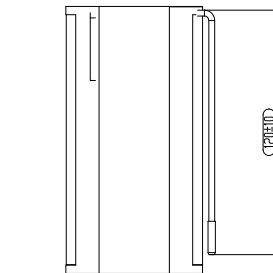
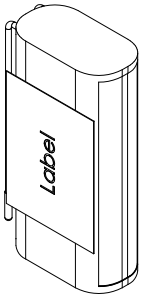
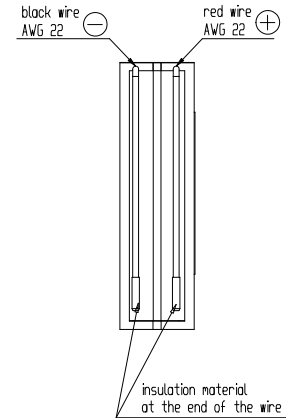
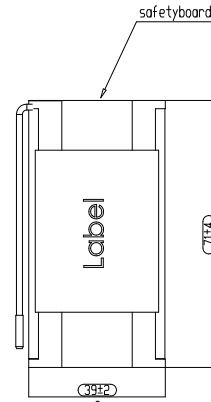
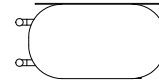
Technische Daten/ technical data	:	Sicherheitsschaltung/ safety board (0180-3029)
Überladeschutzspannung/ over charge voltage detection	:	4.3V±25mV per cell
Wiedereinschaltspannung/ over charge release voltage	:	4.1V±50mV per cell
Entladeabschaltspannung/ over discharge detection voltage	:	2.4V±50mV per cell
Wiedereinschaltspannung/ over discharge release voltage	:	3.0V±100mV per cell
Nominaler Lade/Entladestrom/ nominal operating current	:	5A
Entlade Abschaltstrom/ discharge cut off current	:	13A± 3A
Kurzschlusschutz/ short circuit protection	:	gegen äußeren Kurzschluss/ against external short circuit
Temperaturschalter/ temperature switch	:	PTC : JK-P730 20V/7.3A at 25°C; 6.2A at 40°C
MOSFET	:	in Masse in Gnd

Rückstellkriterium/  
release condition : Last trennen, Aktiv nach Anladen/  
cut load, release after charging up

Leiterplattenmaterial/  
pcb material : FR4

Nettogewicht/  
net weight : ca./ approx. 101g

Standards : CE



Batterypack covered with 2 layers of blue shrinktube

Part Number	SAP Description
2447-3030-20	Li-Ion-7.27V-3500mAh-2S1P-PTC/LG
2447-3030-220	Li-Ion-7.27V-3500mAh-2S1P-PTC/UK

Application range for inquiry				Allowable deviation general tolerances		Tolerance principle:		Model:		Material:	
				DIN ISO 2768-m	ISO 8015	Scale (DIN A2):		Scale (DIN A2):	1:1	All dimensions in mm	Weight:
				2016	Date	Name	Drawing name				
V6	change request: GB-20-7004	04.03.2020	DS	Drawn by	12.10.	JX	Li-Ion-7.27V-3500mAh-2S1P-PTC/LG with safetyboard				
V5	change request: DE-20-5013	13.02.20	MS	Approved by							
V4	add the BP model name	13.01.20	JX								
V3	part number overview added	15.04.19	DS								
V2	cable length changed	16.01.18	DS								
V1	change request DE-17-0071	14.11.17	DS								
V0	created this D/S	12.10.16	JX				Drawing number		Sheet		
Version	Change	Date	Name	Project: IS-206-0063		Replaced by:		2447-3030-X20		1/1	
								Replacement through:			