

Technische Daten/
technical data : Akkupack/
battery pack

Chemie/
chemistry : Lithium Ion

Zellenzahl/
no. of cells : 4 Zellen/ cells INR18650 MJ1 LG ; 4S1P

Kapazität/
capacity : nom. 3500mAh discharge at 0.2C
min. 3350mAh discharge at 0.2C
ta:20°C; EV(Discharge End Voltage): 2.5V per cell

Innenwiderstand/
impedance : < 300mOhm (battery and safetyboard)

Nominalspannung/
nominal voltage : 14.5V

Standard Ladespannung/
standard charge voltage : 16.8V±1%

Standard Entladespannung/
standard discharge voltage : 10V

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 : 4000mA (limited by safetyboard)

Anwendungstemperaturbereich/
ambient temperature range : 0°C...+45°C charge
-20°C...+60°C discharge
-20°C...+20°C storage max. 1 year
-20°C...+45°C storage max. 3months

Standards/
 : UN 3480, Subsection 38.3
All cells and battery packs type tested according to UN manual of test and criteria subsection 38.3

Technische Daten/
technical data : Sicherheitsschaltung/
safety board

Überladeschutzspannung/
over charge voltage detection : 4.35V±25mV per cell

Wiedereinschaltspannung/
over charge release voltage : 4.15V±100mV per cell

Entladeabschaltspannung/
over discharge detection voltage : 2.4V±80mV per cell

Wiedereinschaltspannung/
over discharge release voltage : 3V±100mV per cell

Nominaler Lade/Entladestrom/
nominal operating current : 4A

Entlade Abschaltstrom/
discharge cut off current : 15A± 5A

Kurzschlusschutz/
short circuit protection : gegen äußeren Kurzschluss/
against external short circuit

Überstromschutz/
over current protection : Polyswitch 6A at 25°C

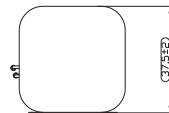
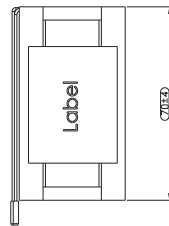
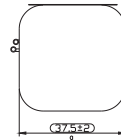
MOSFET : im Pluszweig/
in positive path

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

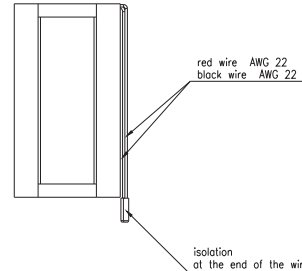
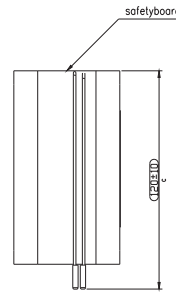
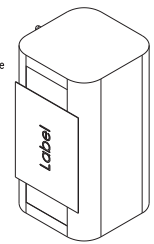
Nettogewicht/
net weight : 190g

Leiterplattenmaterial/
pcb material : FR4

Standards : CE, UKCA



battery pack covered with 2 layers of blue shrinktube



Part Number	SAP Description
2447-3036-20	Li-Ion-14.5V-3500mAh-4S1P-block
2447-3036-220	Li-Ion-14.5V-3500mAh-4S1P-block/UK

Allowable deviation general tolerances		Surface:	Material:	Weight
DM ISO 2768-mS			Scale (DN A2): 1:1	1
Drawn by	Date	Name	Projection method	
05/03/2019		MB	1	
Changed by		Product name:		
		Li-Ion-14.5V-3500mAh-4S1P-block		
		Part number	Project:	
		2447-3036-X20	IS-00428	
		Application range for inquiry		
		AN-IS-2013-00428		
		Sheet		
		1/1		

Version	Change	Date	Name
V3	standards updated	09.01.2021	DS
V0	change request: DE-29-2017	17.02.2018	MB
V0	part number overview added	16.01.2019	DS

