

The supplier acknowledges that, with the acceptance of this drawing, he is in a position to manufacture the illustrated part in accordance with the drawing in reproducible form and to deliver it in the required quantity and quality. The supplier is not responsible for any damage or loss of data resulting from the use of the drawing for the manufacture of the component. Verbal agreements over and above that are not valid. Deviations from this rule must be written and must be signed by the purchaser.

This drawing may not be copied, reproduced or made available to third parties in any way whatsoever without prior written approval.

Technische Daten/
technical data : Akkupack/
batterypack
Chemie/
chemistry : Lithium Ion
Zellenzahl/
no. of cells : 8 Zellen/ cells ; 4S2P
Zellentyp/
cell type : INR18650 LGC MJ1
Kapazität/
capacity : nom. 7000mAh discharge at 0.2C
min. 6700mAh discharge at 0.2C
ta:20°C; EV(Discharge End Voltage): 2.5V per cell

Innenwiderstand/
impedance : < 180mOhm (battery and safetyboard)
Nominalspannung/
nominal voltage : 14.54V
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 : 4000mA (limited by safetyboard)
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...+30°C storage max. 1 year
-20°C...+45°C storage max. 3months

Selbstentladung/
self discharge : ≤ 5% / month at20°C
≤ 10% / month at30°C
≤ 20% / month at40°C

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

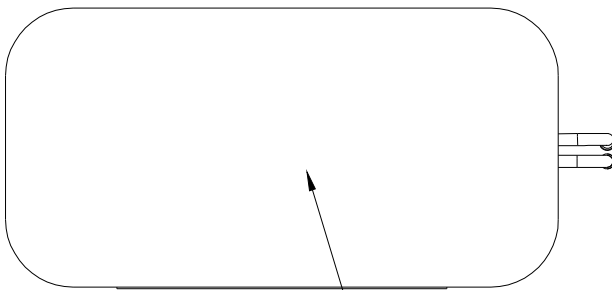
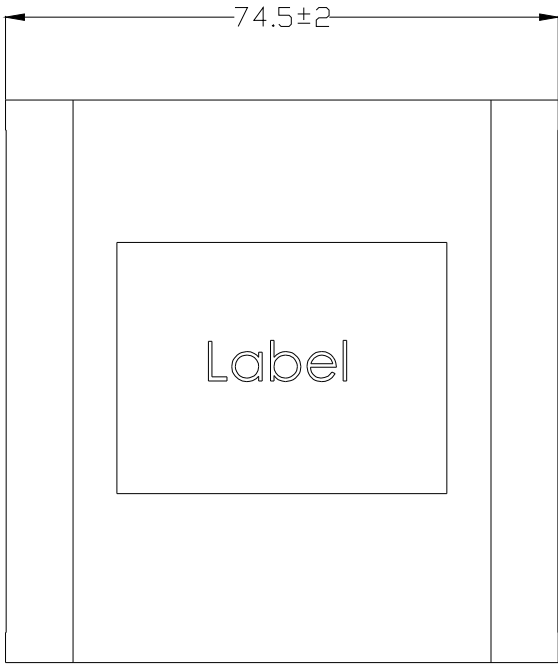
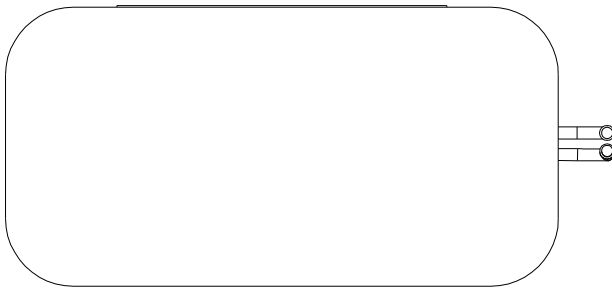
Technische Daten/
technical data : Sicherheitsschaltung/
safety board (0180-3199)

Überladeschutzspannung/
over charge voltage detection : 4.35V±25mV per cell
Wiedereinschaltspannung/
over charge release voltage : 4.15V±50mV per cell
Entladeabschaltspannung/
over discharge detection voltage : 2.4V±80mV per cell
Wiedereinschaltspannung/
over discharge release voltage : 3.0V±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
Temperaturumschalter/
temperature switch : PTC : JK-P600 20V/6A at 25°C; 5.2A at 40°C
MOSFET : im Pluszweig/
in positive path
Rückstellkriterium/
release condition : Last trennen, Aktiv nach Anladen/
cut load, release after charging up

Leiterplattenmaterial/
pcb material : FR4

Nettogewicht/
net weight : 390 g

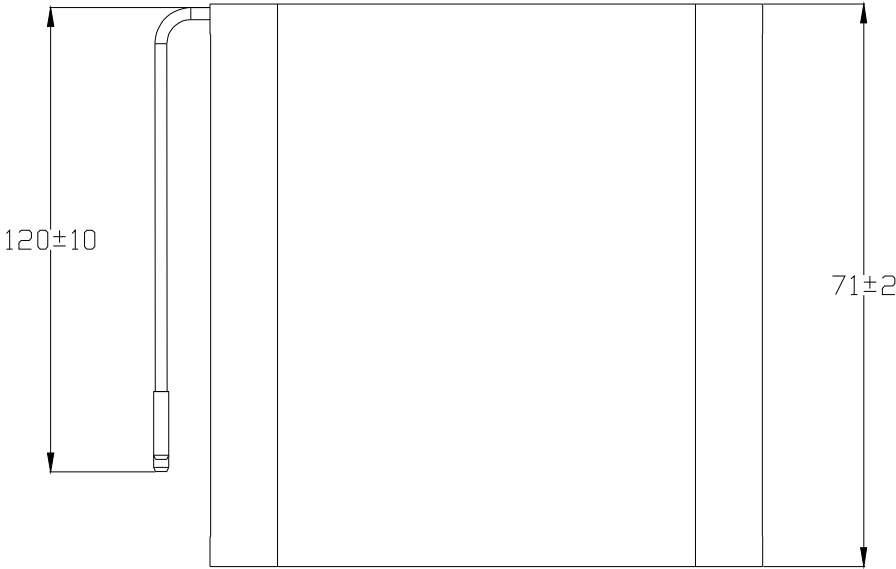
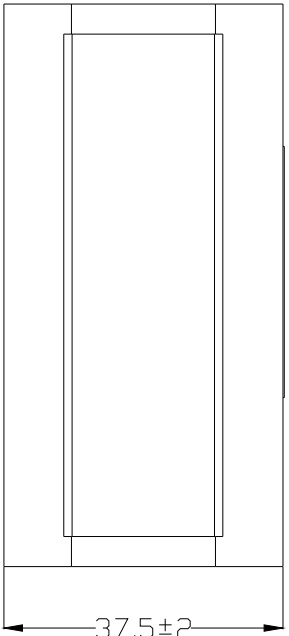
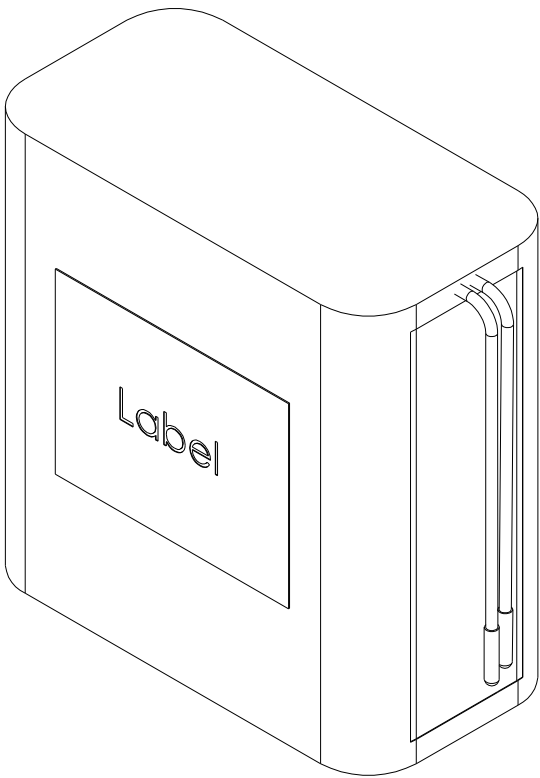
Standards : CE



red wire AWG 22
black wire AWG 22

isolation
at the end of the wire

safetyboard



batterypack covered with 2 layer of blue shrinktube

Part Number	SAP Description
2447-3035-20	Li-Ion-14.54V-7000mAh-4S2P-PTC/LG
2447-3035-220	Li-Ion-14.54V-7000mAh-4S2P-PTC/UK

Verwendungsbereich/Application range für Anfrage/for inquiry IS-2017-xxxx				Zul. Abweichung/ Allowable deviation		Oberfläche/ Surface	Maßstab/Scale (DIN A2): 1:1		Gewicht/Weight				
				Allgemeintoleranz DIN ISO 2768-m			Werkstoff/Work material, Modell-Nr.						
				2017	Datum/Date	Name	Zeichnungsname/Drawing name						
				Erstellt/ Drawn by	12.01.	JX	Li-Ion-14.54V-7000mAh-4S2P-PTC/LG with safetyboard						
V2	change request: DE-20-5013	17.02.20	MSI				Zeichnungsnummer/Drawing number Artikelnummer/Part number				Blatt/ Sheet 1		
V1	part number overview added	15.04.19	DS				2447-3035-X20						
V0	created this D/S	Dec.05.17	JX										
Version		Änderung/Change		Datum/Date		Name		Ursprung/Origin Proj. IS-2017-xxxxx		Ersatz für/Replaced by		Ersatz durch/Replacement through	