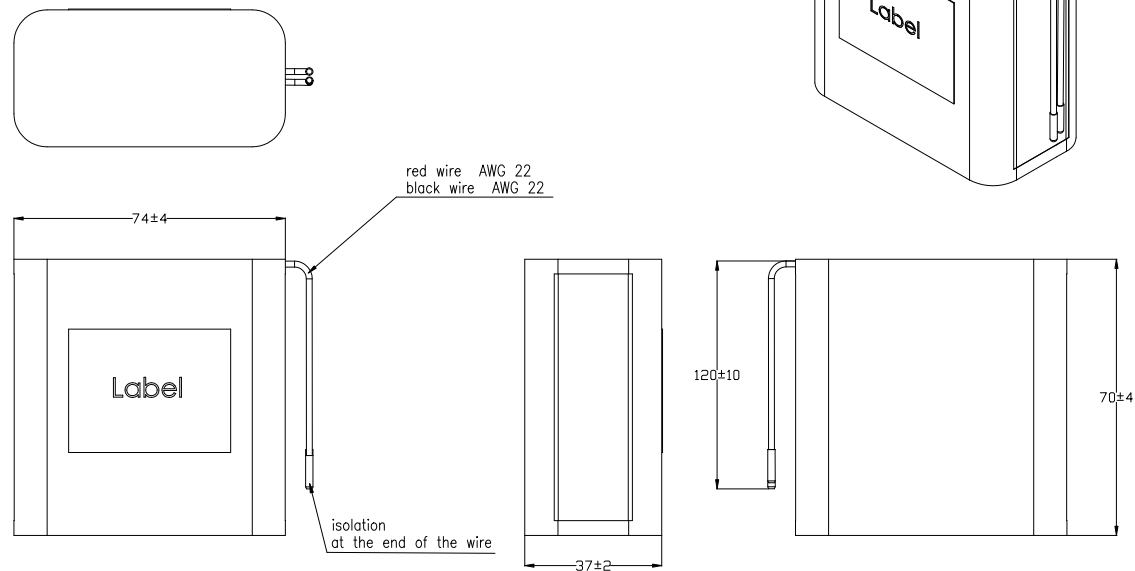


The supplier acknowledges that, with the acceptance of the drawing, he is obliged to manufacture the illustrated part in accordance with the drawing. He is responsible for the correctness of the drawing. The manufacturer is not responsible for any errors in the drawing. The manufacturer is not responsible for any errors in the drawing. The manufacturer is not responsible for any errors in the drawing.

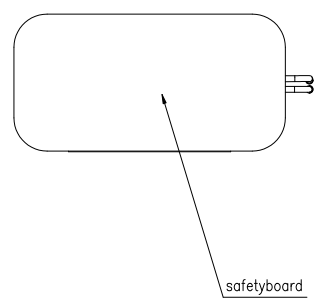
This drawing may be used, reproduced or made available to third parties in any way without the prior written approval of the manufacturer.

- Technische Daten/  
technical data : Akkupack/  
battery pack
- Chemie/  
chemistry : Lithium Ion
- Zellenzahl/  
no. of cells : 8 Zellen/ cells INR18650 LGC B4 ; 4S2P
- Kapazität/  
capacity : nom. 5200mAh discharge at 0.2C  
min. 5000mAh discharge at 0.2C  
ta:20°C; EV(Discharge End Voltage): 2.75V per cell
- Innenwiderstand/  
impedance : < 180mOhm (battery and safetyboard)
- Nominalspannung/  
nominal voltage : 14.8V
- Standard Ladespannung/  
standard charge voltage : 16.8V±1%
- Standard Entladespannung/  
standard discharge voltage : 11V
- 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...+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 battery packs type tested according to UN manual of test and criteria subsection 38.3



battery pack covered with 1 layer of blue shrinktube

- Technische Daten/  
technical data : Sicherheitsschaltung/  
safety board
- Überladeschutzspannung/  
over charge voltage detection : 4.325V±75mV 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 : 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
- Temperaturschalter/  
temperature switch : ---
- MOSFET : im Pluszweig/  
in positive path
- Rückstellkriterium/  
release condition : Last trennen, Aktiv nach Anladen/  
cut load, release after charging up
- Nettogewicht/  
net weight : 370g
- Leiterplattenmaterial/  
pcb material : FR4
- Standards : CE



|  |                            |   |                        |   |  |
|--|----------------------------|---|------------------------|---|--|
| Verwendungsbereich/Application range<br>für Anfrage/for inquiry AN-IS-2013-00427 |                            | Zul. Abweichung/<br>Allowable deviation   | Oberfläche/<br>Surface | Maßstab/Scale (DIN A2): 1:1               | Gewicht/Weight   |
|  |                            | Allgemeintoleranz<br>DIN ISO 2768-m   |                        | Werkstoff/Work material, Modell-Nr.       |  |
|  |                            | 2013<br>Zeichner/<br>Drawn by   | Datum/Date<br>23.10.   | Name<br>JE                                |  |
|  |                            | Zeichnungsname/Drawing name<br>Li-Ion Battery 14.8V 5200mAh<br>with safetyboard |                        |   |  |
| V2   | changed cell description   | 18.12.17  | DS                     | Zeichnungsnummer/Drawing number           |  |
| V1   | change request: DE-15-0022 | 15.01.16  | MS1                    | Artikelnummer/Part number<br>2447-3035-01 |  |
| Version  | Anderung/Change            | Datum/Date  | Name                   | Ursprung/Origin Proj. IS-2013-00427       | Ersatz für/Replaced by<br>Ersatz durch/Replacement through |

