

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 reproducible form and make it available for production.
The manufacturer shall ensure that the selected manufacturing process can produce the part without deviation from the intended design and lead to an impairment of its function.

Vertragsgemäß übergeben und abgenommen werden muss die Fertigung und Montage der Bauteile sein.

Technische Daten/
technical data

:

Akkupack/
battery pack
Chemie/
chemistry

:

Lithium Ion

Zellenzahl/
no. of cells

:

4 Zellen/ cells ; 4S1P

Zellentyp/
cell type

:

INR18650 L6C MJ1

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

:<

240mOhm (battery and safetyboard)

Nominalspannung/
nominal voltage

:

14.54V

Standard Ladespannung/
standard charge voltage

:

16.8V±1%

Standard Entladespannung/
standard discharge voltage

:

10V

Nominale 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

Technische Daten/
technical data

:

Sicherheitsschaltung/
safety board (D180~3199)

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

Nominale Last-/Entlastungsstrom:
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

:

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

:

203.2g

Standards

:

CE, UKCA

batterypack covered with 2 layer of blue shrinktube

red wire AWG 22
black wire AWG 22

insulation material
at the end of the wire

(74.1±2)
c

(22.1±2)
a

(70±2)
d

(125±10)
e

safetyboard

Part Number	SAP Description
2447-3032-20	Li-Ion - 14.5V - 3500mAh - 4S1P - PTC/LG
2447-3032-220	Li-Ion - 14.5V - 3500mAh - PTC/UK

Version	Change	Date	Name
V6	CN-25-2022 / cable tolerance changed	14.05.2025	DS
V5	standards updated	09.06.2021	DS
V4	change request: DE-20-5013	13.02.2020	MSt
V3	part number overview added	15.04.2019	DS
V2	cable length changed	16.01.2018	DS
V1	change request DE-17-0071	14.11.2017	DS
V0	created this D/S	12.10.2016	JX

Allowable deviation general tolerances	Surface:	Material:	Weight
DIN ISO 2768-m		Scale (DIN A2): 1:1	Projection method 1
	Date Name	Product name: Li-Ion-14.5V-3500mAh-4S1P-PTC/LG	
	Drawn by 12.10.2016 JX		
	Changed by		
		Part number 2447-3032-X20	Project: IS-01263
		Application range for inquiry XXX/XX	Sheet 1/1

ANSMANN®