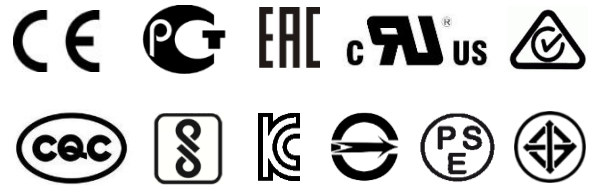


D92020

Rechargeable Smart Battery Pack Li-Ion
10.80V / 9.22Ah / 99.6Wh



Features

- Worldwide approvals and certification of safety standards
- No development costs, fast time-to-market
- Smart batteries with numerous features according to the SMBus specification
- Integrated LED State of Charge (SoC) indicator
- State-of-the-art lithium-ion cells with the market’s highest energy density
- High discharge performance
- JEITA charging profile optimization
- Numerous and redundant safety features, e.g.:
 - CUV (Cell Under Voltage): protection against deep discharge
 - COV (Cell Over Voltage): protection against over charge
 - OTC (Over Temperature in Charge): protection against overheating while charging
 - OTD (Over Temperature in Discharge): protection against overheating during discharging
 - Battery Life Management: protection against rapid cell ageing
- Increased ESD protection up to 8kV
- SHA-1 cryptosystem to prevent plagiarism

Applications

Suitable for use with tablet PC’s, notebooks, industrial and medical devices, etc

Specification

| General | |
|----------------------------------|--|
| Delivery status battery capacity | 30% |
| Compliance information | CE / UL2054 / FCC / PSE / KC / Gost / EAC / CQC / RCM / IEC62133 / UN38.3 / RoHS / REACH / BIS / TISI / BSMI |
| Operating temperature | 0°C to 45°C (charge) -20°C to 60°C (discharge) |
| Storage temperature | -20°C to 50°C max. -20°C to 25°C recommended |

| Electrical Parameters | |
|------------------------|---|
| Nominal voltage | 10.80V |
| Nominal capacity | 9.22Ah |
| Initial impedance | <200mΩ @ 1kHz at 25°C |
| Max. charge current | 6.20A |
| Max. charge voltage | 12.30V |
| Max. discharge current | 10.00A |
| Life expectancy | 300 cycles with ≥ 63% of initial capacity CC/CV Charge: 4.88A / 12.30V Discharge: 4.88A down to 7.50V @25°C |

| Battery Dimensions | |
|-------------------------|-------------------|
| Length (min. – max.) | 148.30 – 149.70mm |
| Width (min. – max.) | 88.75 – 89.25mm |
| Thickness (min. – max.) | 19.45 – 20.10mm |
| Weight | 480g |
| Contacts | +, C, D, T, - |

| Safety Parameters PCM | |
|--|--------|
| Overcharge detection voltage / cell | 4.15V |
| Overdischarge detection voltage / cell | 2.50V |
| Overcharge detection current | 8.00A |
| Overdischarge detection current | 11.00A |


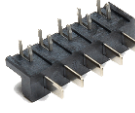
Recommended Accessories

| Type | Product | P/N | Application |
|-------------------------|--|--------------------------------------|--|
| Battery Charger |  SMB-UBC SMB-UBC-M | D90481 D90551 | 65W standard battery charger for optimized charging process. With external power supply for worldwide use. |
| Battery Charger |  SMB-DBC | D90512 | Dual bay standard battery charger for optimized charging process. With external power supply for worldwide use. |
| Power Management Module |  PMM240 | D90513 | Power management module for smart battery charging with automatic power source selection. Fits to all D920xx standard smart batteries. |
| Power Supply AC/DC |  PS65 | D90540 | External power supply for power management module PMM240 or for mobile devices. Included in SMB-UBC/MBC. |
| 3-pol AC-Cable |  US-Version EU-Version UK-Version AU-Version | 210950 210951 211333 211334 | Country specific power cable for PS65. |
| Car Adapter DC/DC |  SMB-CAR | D90554 | 90W car adapter with USB charging port. Power supplying in cars and trucks for SMB-UBC, SMB-MBC, PMM240 or mobile devices. |

TECHNICAL DATA SHEET

D92020



| Type | Product | P/N | Application |
|--|-----------------------------------|------------------|---|
| Design-In Tool  | SMBus-Reader | D90534 | Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface. |
| Battery Connector  | RRC-MC20-90-10 RRC-MC20-180-10 | D90536 D90537 | Mating connector for standard smart batteries. Suitable for D920xx batteries. Available for 90° or 180° PCB mounting. |

305 Commerce Dr • Suite 300 • Exton, PA 19341 • 800.771.7139 • www.cell-con.com