

2EXL7589 Series

Criterion IQ Li-Ion Intelligent Battery 7.2V 6.0Ah

ULTRALIFE®

Introduction

Battery packs manufactured by Ultralife are engineered and designed for a wide range of handheld portable, medical, and stationary devices and demanding applications. Ultralife's intelligent battery packs are available with short lead times and small minimum orders.

Key Features

- High-accuracy voltage and current detection with Impedance Tracking Fuel-Gauging
- 4-Segment LED Display for State of Charge Indication
- Active State of Health Monitoring
- Integrated protection features ensure operation within safe limits
- Two-Wire SMBus V1.1 Interface
- 2S2P configuration with Samsung INR18650-30Q cells
- Integrated cell balancing while charging or at rest
- TE Connectivity 1747786-1 connector
- Designed to meet IEC 62133 and UL 2054
- UN 38.3 approval for shipping



CRITERION IQ

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Battery Pack Specifications

Nominal Voltage	7.2 V
Capacity (Typical @ 25C)	6000mAh
Capacity (Minimum @ 1200mA, 5.0V cut-off, 25C)	5900mAh
Energy (Typical, @ 25C)	43.2Wh
Voltage Range	5.0V - 8.4V
Continuous Charge Current (Standard @ 25C)	3A
Continuous Charge Current (Max @ 25C)	4A
Continuous Discharge Current (Max @ 25C)	5A
Charge Termination Current (3A charge @ 25C)	300mA
Charge Termination Current (4A charge @ 25C)	NPC15XH103F03RC
Thermistor Manufacturer Part Number	200mA
Thermistor Nominal Resistance (@25C)	10k
Thermistor B Constant (25/85C)	3380k

Mechanical Specifications

Dimensions	Length (Typical)	76.115mm
	Width (Typical)	78.740mm
	Thickness (Typical)	22.658mm

Battery Pack Specifications

Charge Temperature (Ambient)	0C to +45C
Discharge Temperature (Ambient ^{*Note 1})	-20C to 60C
Storage Temperature (Ambient, @30% SOC ^{*Note 2})	0C to 23C (1 year)
	0C to 45C (3 months)
	0C to 60C (1 month)

Note 1: Maximum cell surface temperature = 70C. Maximum surface temperature is defined as the point in the pack where the cell's surface temperature is the highest.

Note 2: Capacity recovery > 80% for all specified storage conditions if stored at 30% state of charge.

!WARNING !

Fire, explosion, and severe burn hazard. Do not recharge, crush, disassemble, heat above 165C, incinerate, short circuit or expose contents to water. Keep battery out of reach of children and store in original package until ready to use. Dispose of used batteries properly.

About Ultralife

Ultralife is a global leader in mission critical battery, power and communications systems solutions for the most demanding applications in Gov't & Defense, Commercial and Industrial markets. With operations in North America, Europe and Asia, we are well positioned as a tier 1 supplier and partner to large, global OEM's, government agencies and defense contractors who rely on our experience and expertise to support product launches and missions.

We design complex battery, RF power solutions and a wide variety of adjacent technical solutions for mission-critical applications where safety, reliability and performance are non-negotiable.

We Offer:

- Extensive mission-critical application expertise and experience
- Deep technical integration with your design team – from batteries and packs to communications and compute
- Products engineered for extreme environments and harsh conditions
- Strategic lifecycle support from concept through 10-15+ years in the field