

Li-Ion Battery Charger Selector Guide

Part Number Package	Charge Current (maximum)	Input		Battery Type	LED Drivers	Isolated Topology	Other Features
		Wall Adapter	USB Mode				
LX2205 MLPQ-16	1A	Yes	High, Low Suspend	Up to 2A - Hours	2	Yes	Separate adapter / USB inputs USB current limiting Discharge currents to 1.6A
LX2206 MLPD-10	1A	Yes	High, Low Suspend	50mA - 2A - Hours	3	No	Dual power connector Battery temperature monitor "Full battery" lockout
LX2207 MLPD-12	1A	Yes	High, Low Suspend	50mA - 2A - Hours	3	No	Three levels of programmable charge current
LX2208 MLPD-12	2A	Yes	High, Low Suspend	50mA - 2A - Hours	3	No	Up to 2A charging current

Microsemi constant current / constant voltage linear chargers provide precision voltage control, making sure the battery does not get overcharged or otherwise damaged in the charging process. A special protection feature for deeply discharged batteries provides an initial low conditioning current, until the full charging current can safely be applied. The automatic top-off of a nearly full battery assures that a full charge will be maintained over time.

The most commonly used battery-charging configuration is to connect the system load directly to the battery-charger output. This solution is simple and low cost. A more advanced topology provides a power sharing capability, allowing the system to operate while charging the battery at the same time. An example of this architecture can be found in the LX2205™.

Key Features

- Precision Charger Voltage: No Overcharge
- Programmable Charge Current
- Programmable Cycle Termination Current
- Thermal Control Loop
- Conditioning Current
- Automatic Top-off Restart
- Reverse Current Blocking
- Short Circuit Protection
- Low Dropout Voltage Design
- Thermally Efficient Package with Built-in Heat sink
- LX2205 – Isolated Charging Topology

Applications

- MP3/ MP4 Audio Players
- Digital Multimedia Players
- Bluetooth Headsets – Car Kits
- GPS Devices
- POS Terminals
- Digital Cameras
- PDAs and Cradles
- Wireless Sensors for Security Systems
- Medical Diagnostic Devices

