

Battery Chargers

Part Number	Charge Current (A)	Input Voltage (V)	# of Cells (Series)	Type of Charger	Pass Element (MOSFET or BJT)	Package	Comments and Features	Price 1K Qty
NiMH, NiCd, SLA Battery Chargers								
LTC1734	Up to 0.7	4.55 to 8	1	Linear	External	ThinSOT	SOT-23 linear charger; only three components for complete solution	\$1.25
LT1510-5	Up to 1	6.2 to 29	1 to 3	Switching	Internal	SO8, SSOP & SO16	500kHz integrated switching frequency for small solution	\$4.05
LT1571	Up to 1.5	6.2 to 27	1,2, adj	Switching	Internal	SSOP16, SSOP28	Integrated switching charger with C/10 detection/indicator	\$3.95
LT1769	Up to 2	6.2 to 29	1 to 4	Switching	Internal	TSSOP20, SSOP28	Integrated switching charger in thermally enhanced exposed PAD 20-lead small shrink outline package	\$4.95
LT1512/ LT1513	Up to 2.5	2.4 to 29	1 to 6	Switching	Internal	LT1512: SO8 LT1513: DD and T7	Input supply voltage can be above or below battery voltage	\$3.60
LT1511	Up to 3	6 to 29	1 to 4	Switching	Internal	SO24	Integrated switching charger with 4A internal switch	\$6.50
LT1505	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP28	Synchronous switching controller for high current, high efficiency with adapter current limit	\$4.60
LT1505-1	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP28	Synchronous switching controller for high current, high efficiency	\$4.60
LTC1759	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP36	SMBus Charger with integrated SMBus Accelerator™	\$5.40
LTC1960	Up to 6	6 to 28	1 to 6	Switching	External, Synchronous	SSOP36	Dual battery selector and charger; fast charge; crisis management	\$6.95
Li-Ion and Li-Polymer Battery Chargers								
LTC1734L	0.05 to 0.180	4.55 to 8	1	Linear	External	ThinSOT	Precisionn ultralow charge current linear charger; very small design	\$1.25
LTC1734	Up to 0.7	4.55 to 8	1	Linear	External	ThinSOT	SOT-23 linear charger; only three components for complete solution	\$1.25
LTC1731	Up to 1	4.5 to 12	1,2	Linear	External	MS8, SO8	Linear charger with AC adapter detection	\$1.55
LTC1732	Up to 1	4.5 to 12	1,2	Linear	External	MS10	Complete, stand-alone linear charger; needs no firmware	\$2.15
LTC4050	Up to 1	4.5 to 12	1	Linear	External	MS10	LTC1732 + thermistor interface	\$2.25
LTC1730	Up to 1	4.5 to 12	1	Pulse	External	SSOP16	Minimum heat dissipation; Selectable 4.1V/4.2V; current limit protection; for use current limited wall adapter	\$1.85
LT1510-5	Up to 1	6.2 to 29	1 to 3	Switching	Internal	SO8, SSOP & SO16	500kHz integrated switching frequency for small solution	\$4.05
LTC1733	Up to 1.5	4.5 to 6.5	1	Linear	Internal	Thermally Enhanced Package	Thermal regulation for no overheating; integrated MOSFET, RSENSE, Diode; Stand-alone; Thermistor interface	\$2.35
LT1571	Up to 1.5	6.2 to 27	1,2, adj.	Switching	Internal	SSOP16, SSOP28	Integrated switching charger with C/10 detection/indicator	\$3.95
LTC4052	Up to 2	4.5 to 12	1	Pulse	Internal	MS10	Minimum heat dissipation; current limit for safety; standalone	\$1.85
LTC4053	Up to 2; 100/500mA	USB Input	1	Linear	Internal	MS10	USB compatible; complete and standalone; thermal regulation prevents overheating	\$1.90

Part Number	Charge Current (A)	Input Voltage (V)	# of Cells (Series)	Type of Charger	Pass Element (MOSFET or BJT)	Package	Comments and Features	Price 1K Qty
LT1769	Up to 2	6.2 to 29	1 to 4	Switching	Internal	SSOP28, TSSOP20	Integrated switching charger in thermally enhanced exposed PAD, 20-lead small shrink outline package	\$4.95
LT1512/ LT1513	Up to 2.5	2.4 to 29	1 to 6	Switching	Internal	LT1512: SO8 LT1513: DD and T7	Input supply voltage can be above or below battery voltage	\$4.00
LT1511	Up to 3	6 to 29	1 to 4	Switching	Internal	SO24	Integrated switching charger with 4A internal switch	\$6.50
LT1505	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP28	Synchronous switching controller for high current, high efficiency with adapter current limit	\$4.60
LT1505-1	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP28	Synchronous switching controller for high current, high efficiency	\$4.60
LTC1759	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP36	SMBus Charger with integrated SMBus Accelerator™	\$5.40
LTC1960	Up to 6	6 to 28	1 to 6	Switching	External, Synchronous	SSOP36	Dual battery selector and charger; fast charge; crisis management; SPI interface	\$6.95
LTC1729	See Features	6 to 30	1, 2	See Features	Not applicable	MS8, SO8	Charge termination controller for use with LTC switching chargers	\$2.20
Buck/Boost Battery Chargers								
LT1512/ LT1513	Up to 2.5	2.4 to 29	1 to 6	Switching	Internal	LT1512: SO8 LT1513: DD and T7	Input supply voltage can be above or below battery voltage	\$3.75
SMBus, I²C, SPI Controlled Battery Chargers								
LTC1960	Up to 6	6 to 28	1 to 6	Switching	External, Synchronous	SSOP36	Dual battery selector and charger; fast charge; crisis management; SPI interface	\$6.95
LTC1759	Up to 6	6.7 to 26	1 to 4	Switching	External, Synchronous	SSOP36	SMBus Charger with integrated SMBus Accelerator™	\$5.40
Description							Comments and Features	
Battery Charging Support Functions								
LTC4412	Low Loss PowerPath Controller					ThinSOT	Replaces power supply OR'ing diodes; offers higher efficiency; simplifies load sharing with multiple batteries; automatic switchgiving between DC sources	\$1.30
LTC1729	Li-Ion Battery Charger Termination Controller					MS8, SO8	Operates with all LTC switching chargers; built-in 3-hour time-out termination; C/10 detection with status indicator	\$2.70
LTC1998	Programmable Low Battery Voltage Detector					ThinSOT	Precision 1% trip voltage; adjustable trip voltage and hysteresis; 2.5uA supply current	\$0.95
LTC1473L	Dual Low Voltage PowerPath Switch Driver					SSOP16	Power path management for multiple DC sources; 3.3V to 10V input; all N-Channel MOSFETs for low loss	\$3.55