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## LX2208ILD (#75750)

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#### Overview

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##### Description

The LX2208 is a single cell Lithium Ion or Lithium Polymer battery charger. The controller will charge a single cell Li-Ion battery from either a wall adapter or a USB power source. A low under-voltage lockout level increases usable charging range from a current limited power source. In addition, there is a linear die temperature thermal control loop, which limits the heat dissipation while still charging the battery. There are three logic selectable and programmable charge current levels: the high charge programming level is typically set for charging from the wall adapter, the low level charge programming is typically set to 500mA for full USB charging and 100mA (20%) for reduced USB charging. In addition to setting the high-level charge current, the HCP programming resistor also sets the termination current at 10% of the constant current level and the conditioning current at 5% of the constant current level. Power status indicators STAT and can be configured to show charge in progress, battery fully charged and external power on. The STAT pin is capable of sourcing or sinking 5mA. The output is an open drain output and can sink 10mA. The LX2208 enters a low quiescent current shut down when power is removed from the IN pin or when it is logically shutdown to minimize battery drain. Protection features include: under voltage lock out, reverse current blocking on the IN pin, internal die temperature thermal loop to reduce charge current to maintain a safe die temperature, and a unsafe battery temperature charge inhibitor. For charging deeply discharged batteries, the controller includes a conditioning charge mode. The LX2208 comes in a 3x3mm 12 pin MLPD package.

Electrical Rating	Symbol	Min	Typ	Max	Unit
Battery Size (Ahr)	Battery Size (Ahr)	0.05		2.00	Select
Charge Current	Charge			2.00	A

Undefined	Symbol	Min	Typ	Max	Unit
Charge Levels	Charge Levels			3.00	Select
LED Indicators	LED Indicators			3.00	Select

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