

Battery Chargers

Standard and custom chargers for all battery chemistries



D&B Products has been producing custom and standard battery chargers for more than 25 years.

Starting with lead acid applications, our portfolio of designs has continuously expanded as battery management chip technology has become more sophisticated. Simple, economic chargers through sophisticated multi stage charging with a broad range of amp hour ratings available. Unregulated, linear regulated, and switchmode designs packaged in both plastic enclosures, and open frame configurations. If your application is consumer, industrial, or medical, D&B Products can support your needs.



LEAD ACID

Cyclic Chargers: Very economical, unregulated supply for trickle charge maintenance. Wall plug-in or desk-top cases. Optional LED charge indicator. Unlimited choice of output connectors.

Regulated Float Chargers: Single stage regulated output voltage. Will never overcharge and can be permanently connected to battery. High capacity rates available. External ventless cases with optional LED status indicators and an unlimited choice of output connectors.

Smart Chargers: Regulated 2 stage voltage, 2 stage current or 2 stage pulsed current plus maintenance. Fast charge termination based on minimum current, maximum voltage, or time out. Pre-charge qualification detects open, shorted or damaged cells. Temperature compensated maintenance voltage. Multiple LED status indicators. Fast charge for 2 through 6 lead acid cells.

NICAD

Modified Constant Current: Most economical unregulated system, typically for overnight charging. Wall plug-in or desk-top ventless cases. Choice of output connector. Automotive Plug-in

Regulated Constant Current: Low cost single stage regulated output. Typically used at C/10 and C/20 rates. Wall plug-in or Desk-top Ventless cases with optional LED charging indicator. Choice of output connector.

– V **Smart Chargers:** 2 stage regulated system for constant current fast charge to float charge. Fast charge termination via – V with timed safety backup and maximum voltage limit.

Pre-qualifications detect under-voltage condition. Optional discharge before charge. LED status indicators available for charge pending, fast charges, float charge, or discharge if used. Models available for batteries from single AAA up through 12 F cells with choice of charge rates and timer back up. Wall Plug-in or Desk-top cases with choice of output connector.



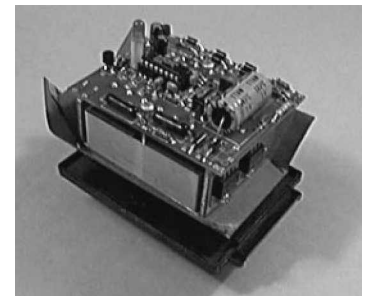
Lithium Ion

Smart Chargers: 2 stage management: constant current to constant voltage pre-set. Pre-charge qualification detects under-voltage condition or out-of-range temperature. Charging continuously qualified by voltage limits and temperature. Fast charge terminated by minimum current in constant voltage mode with maximum time and temperature limit back up. LED status indicators for charging, ready, and fault. Optimal battery pack protection provided by NTC thermistor, min/max voltage or thermal switch. Models available for batteries rated 1AH single cell through 6.3AH. 12 cells. Wall Plug-in. Desk-top. Automotive Plug-in cases with choice of output connector.

Nickel Metal Hydride

Regulated Constant Current: Low cost single stage regulated output. Typically used at C/10 and C/20 rates. Wall plug-in or Desk-top Ventless cases with optional LED charging indicator. Choice of output connector.

T/ t Smart Chargers: Regulated constant current fast charge mode with primary termination via **T/ t** Top Off charge follows to add additional energy to cell. Finally, charge switches to trickle to compensate for cell self-discharge. Pre-Qualification tests detect under-voltage or out of range battery temperature. LED status indicators for charge pending, fast charge, and float charge. Battery pack to contain an NTC thermistor. Wall Plug-in Desk-top cases and choice of connector.



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