

TECHNICAL DATA

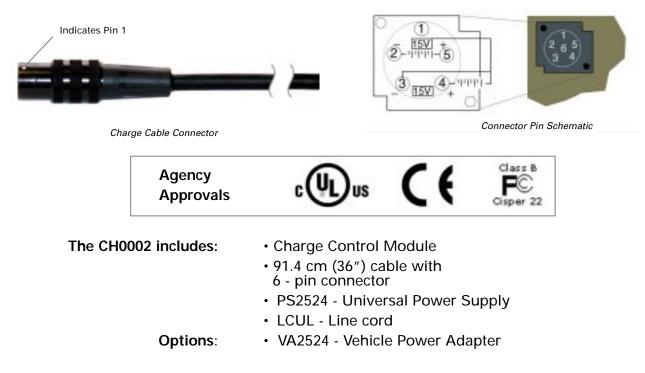
CH0002 Charger

Specifications

Part Number	CH0002	Connector DC	2.5mm
Maximum Charge Rate:	1.0 Amp	Polarity:	Center Positive
Charge Termination Voltage:	16.8V	Cable:	91.4 cm (24 in.)
Weight:	432 g 15.2 oz	Connector:	6 Pin
Material:	ABS G1SM	Dimensions:	174 x 123.7 x 53.6 mm
Color:	Black		6.87 x 4.87 x 2.11 in



Use with UBI-2590 (UBBL02) Lithium-Ion battery only



Newark, NY • 1-315-332-7100 • Fax 1-315-331-7800 / Abingdon, England • +44 (0)1235 542600 • Fax +44 (0)1235 535766 © 2003 Ultralife Batteries, Inc. www.ultralifebatteries.com • All specifications subject to change without notice • The information contained herein is for reference only and does not constitute a warranty of performance • Aug 11'03 • UBI-5134 Rev A

Specification - CH0002

Batteries: Termination Max current Top-off current Temperature range	Li-Ion, Li-Polymer CC/CV 1000mA 100mA 0° C to 45° C	4 cell series Voltage Point 0.2% +/- 6% +/- 50mA for 60min. +/- 0.2° C	
Important:			
Maximum input	30 VDC		
Minimum input	19 VDC		
Storage temperature	-25° C to 70° C		
Physical:			
Dimensions	174.5 x 123.7 x 7 x 53.6 (mm)	6.87 x 4.87 x 2.11 (in.)	
Weight	15.24 oz. (432g)		
Material	ABS GSM		
Color	Black		
Input connector	2.5mm DC center positive		
Agency Approvals:	CE, FCC Class B & Cisper 22		
L.E.D. Status Indications:			
Off	No battery detected		
Green Blinking	Charging		
Green Steady on	Charge Complete		
Red Blinking	ed Blinking Error: shorted terminals, invalid pack chemistry		
* Description of operation w	ith Lithium-Ion		

A) At Start-up the charger pulses at current limit until the battery pack is detected. This allows the safety circuit to wake-up and protects against charging shorted packs.

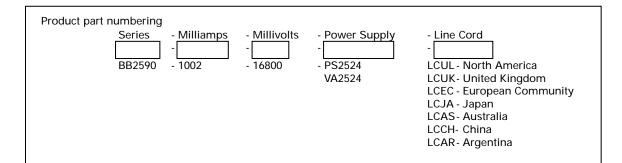
B) When the pack is detected the current limit is set (voltage limited) and the LED flashes Green. When the current drops below limit/10 the LED is set to Green Steady On. When the current drops below 50 mA the current is turned off.

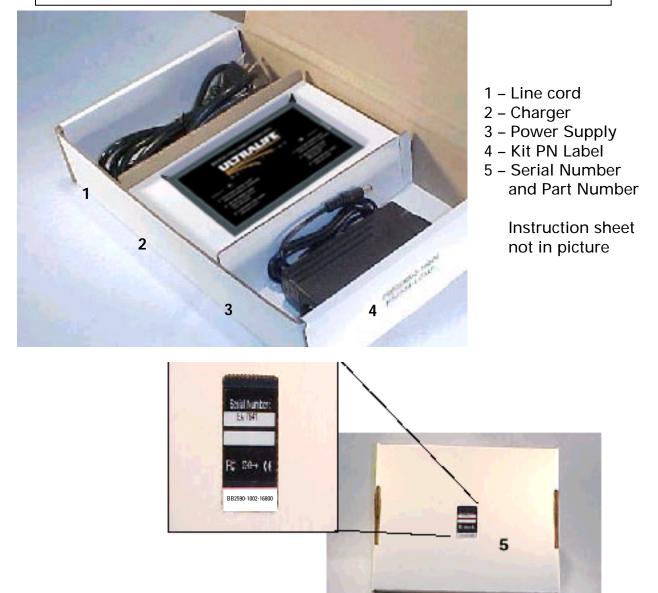
C) Every 24 hours the current is turned on for 1 hour or until it drops below 50 mA.

For complete charger instructions refer to: UBI-5133



Specification - CH0002







Specification - Power Supply



Part Number: PS-2524 **Output Voltage** 24 VDC **Output Cable** 18Awg - 72" Long Output Connecter 2.5mm Center Positive Input Voltage 90 - 264 VAC, 47-63 Hz, Single Phase Input Connecter IEC-320 Dimensions 76.2 x 43.2 x 147.3 mm (3.0" x 1.7" x 5.8") Weight 482 g (17 oz.) typical Input Current 1A Maximum at 90 VAC 25 Amps max at 132 VAC / Cold Start Inrush Current 50 Amps max at 264 VAC / Cold Start

Load Regulation5% from 20% to 100Line Regulation0.4% Full rangeOutput Ripple+1% Pk-Pk typical; 2'Minimum Load0% - none requiredOverload ProtectionAutomatic recoveryShort Circuit ProtectionAutomatic recoveryOvervoltage ProtectionNo overshoot at turnOvershootNo overshoot at turnTransient ResponseTransient Response

Turn on Time Hold up Time Line Surge Switching Frequency EMI

Safety Agencies Leakage Current Case Ambient Temperature Ambient Humidity Model Number Warranty

5% from 20% to 100% load variation 0.4% Full range +1% Pk-Pk typical; 2% Pk-Pk maximum 0% - none required Automatic recovery 115 - 140%, Automatic recovery No overshoot at turn on or off 1ms typical for return within 1% for 50% Load step change at 1A/usec. 5% maximum deviation 0.5 seconds maximum for all units 16msec minimum at nominal line IEC 801-5 Level 4 100 KHz typical Complies with FCC part 15 Class B, EN55011, EN55022, VFG243 Class B UL/CSA (CNL) File#E142017; TUV/EN60950 Less than 0.75mA ABS Molded Thermoplastic 94V-O Storage: -20° to 85° C Operating: 0° to 50° C 10 to 90% Non-condensing SPU50-3, UP04811240 1 year

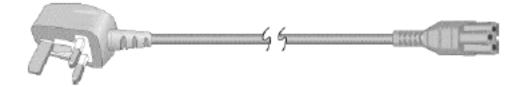


Specification - Line Cord



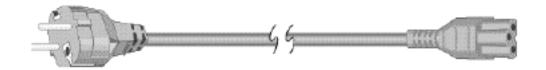
UL <u>SPECIFICATION:</u>

Country:	North America	Conductor:	3x18AWG
Connector AC:	UL/CSA 3 prong	Current:	2.5 A
Connector DC:	IEC-320-C5	Voltage:	125VAC
Length:	6 ft.	Color:	Black



UK <u>SPECIFICATION:</u>

Connector AC:	United Kingdom	Conductor:	3x18AWG
	BSI	Current:	2.5A
	IEC-320-C5	Voltage:	125VAC
	6 ft.	Color:	Black



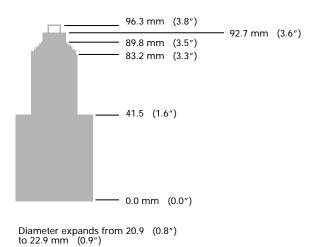
EC <u>SPECIFICATION:</u>

Country:	European Com	Conductor:	3x18AWG
Connector AC:	European Universal	Current:	2.5 A
Connector DC:	IEC-320-C5	Voltage:	125VAC
Length:	6 ft.	Color:	Black



Vehicle - Adapter





Part Number: Output Current Output Voltage Output Power Output Cable Output Connecter Input Voltage Input Connecter Weight Input Current Load Regulation Output Ripple Overload Protection Short Circuit Protection EMI

Case Ambient Temperature

Ambient Humidity Warranty

VA2524

2.5 Amps maximum 24 VDC +1.5V 60 Watts maximum 2.44 m + 152.4 mm (8 ft. + 6 in.) extended 2.5 mm Center Positive 13.6 VDC Nominal Expanding Lighter Adapter 6.4 oz. typical 8.0 Amp + 7% 100mV RMS Current limited **PEPI Resettable Fuse** Complies with FCC part 15 Class B, EN55011, EN55022, VFG243 Class B ABS Molded Thermoplastic 94-HB Storage: -20° to 85° C Operating: 0° to 45° C 10 to 90% Non-condensing 1 year

