

FROM THE LABS AT GRIN TECHNOLOGIES FOR EBIKE RIDERS AROUND THE WORLD

THE CYCLE SATIATOR POWERFUL – PROGRAMMABLE – PORTABLE



A FAMILY OF UNIVERSAL FAST CHARGERS FOR ALL TYPES OF BATTERY PACKS

- Supports All Major Chemistries
- 100-240V AC Input Range
- Programmable Output Voltage
- 360 Watts of Charging Power
- Rugged, Sealed, and Compact
- 95% Power Efficiency

The Cycle Satiator[®] defines a whole new class of 'smart charger', one that gives you, as a user, dealer or OEM, full control to set up the optimal charging scenario for your batteries

FEATURES





UNIVERSAL COMPATIBILITY

The Satiator is not limited to charging a specific battery type. Instead, this one charger can be configured for virtually any Lithium, Nickle Metal Hydride, or Lead Acid battery pack. Each model supports a wide range of output voltages, up to 103V max, and can be loaded with dozens of preset or custom charging profiles.



REALTIME CHARGE STATS

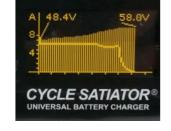
A large and bright OLED display screen shows all your realtime charging statistics; you can see the total amp-hours and voltage along with a clear graphic indicating the approximate charge in the pack.

CHARGE GRAPH

An additional screen allows you to see a full graphical plot of the charge current and voltage while the charge is under way.

8V Lithium Stats

CYCLE SATIATOR



HISTORIC PROFILE STATS

The Satiator also keeps tracks of the lifetime charge history of each profile, so you can easily assess your usage pattern and overall battery health.

FAN FREE EFFICIENCY

The power electronics were carefully designed to reach 95% efficiency at full load, eliminating the need for a fan to get rid of waste heat and keep things cool. No more buzzing fan noise and no risk of charger meltdowns if the fan fails.





SEALED AND WATERTIGHT

A gasketted enclosure and connector design strategy keeps the charger electronics protected in the face of rain, road spray, dust storms etc.





COMPACT AND NARROW SIZE

The charger is less than 5cm high and 8cm wide, allowing it to fit easily in a saddle bag, under the rear rack, inside a frame triangle, or screwed to a chassis.

IMPRESSIVE POWER DENSITY At almost 0.5 watts / cm³, the Satiator packs 2-3 times more power per volume than most other chargers available. That translates into big league charging currents

in a portable size device.







ONBOARD INSTALLATION

The rugged, compact, and fan-free design allows the charger to be permanently mounted on the vehicle without risk of premature failure from vibration or exposure.

SERIOUSLY FAST CHARGING

With a 360 watt power output, the Satiator can charge your batteries in half the time of typical 150-200W "Fast" Chargers.

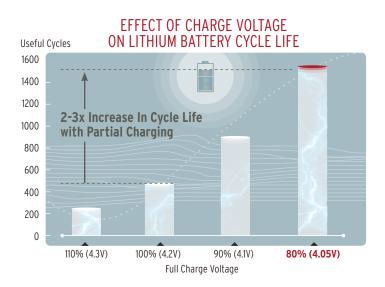
SATIATOR SUITE SOFTWARE

Easy to use computer software allows for rapid modification of the charge profiles and Satiator settings. End-users and OEMs can configure custom profile names, and back up, restore, and share their profiles. Available for Windows, MacOS and Linux.

Vew Profile	atiator 🔘 Disco	nnect 🃅 Read Data	TT Save Data		S	tiator	Softwar	e Suite	GRU
36V LiFe	ODX	Active? Default?	52	/ Lithi	um			Edit Profil	e
Fast Charge 36V Life Stnd Charge	O D ×	Editable?	Full	Charge	5			Cancel	
48V Lithium Fast Charge	O D ×		58.0	Volts	Fu	II Volt	age		
48V Lithium Stnd Charge	OD ×		6.5	Amps	Bu	ilk Cu	rrent		
48V Lithium 80% Charge	• D ×			Edit Advanc	ed Setting	5			
24V SLA Fast Charge	• D ×		Min Starting	Voltage:	29.0	Vol	ts		
36V SLA Stnd Charge	O D ×		Start (Bulk Start	Current: Voltage:	0.20	An			
48V SLA Stnd Charge	OD ×	Char	ge Complete (0.15	Am			
52V Lithium Full Charge	• D.K.								
				Profile	Stats				
			U	fetime Tot		A	rerages		
				61 Wh		561	Wh/Charg		
				0.6 Ah			Ah/Charge		
		Charge Charge	100 State 1	28 h		2.28	h/Charge		
	Move Down	Charge	June						
Move Up			0						

SATIATE FOR ENHANCED BATTERY LIFE

Most lithium batteries are capable of vastly improved cycle life if they are not fully charged to saturation all the time, but at the expense of reduced range.



With the Cycle Satiator, you can program your primary profile to give an 80% charge, and have a secondary profile that does a 100% charge when you need full range. Then have the best of both worlds, a battery that lasts thousands of cycles but still goes the distance when you need it.



FUTURE PROOF

The firmware can be upgraded in the field, and along with the flexible custom profiles this means your Cycle Satiator is ready for whatever batteries the future has in store.



THE CYCLE SATIATOR

SPECIFICATIONS

OUTPUT RANGE

Version	24V 15A	48V 8A	72V 5A
Model Number	GC360-2415	GC360-4808	GC360-7205
Max Voltage	36V	63V	103V
Max Current*	15A	8A	5A

*Charge current may be furter limited by 360 watts or thermal rollback

ELECTRICAL

Input Range	100-240VAC 50-60Hz
Operating Efficiency	95% @ 230V, 94% @ 120V
Power Factor	> 99%
No Load AC Power	<1 Watt
Output Leakage	<100uA

MECHANICAL

Dimensions	237 x 78 x 48 mm
Mounting Holes	5mm Flange Slots 220mm Apart
Weight	1.06 kg (1.33 kg with AC-DC cords)
Chassis Material	Diecast Aluminum



CONNECTORS / CABLES

AC Input Connector	IEC320-C14
DC Output Connector	SINGATRON 2CT3002-W03400
DC Output Cable 48V & 72V models	1m with 3-Pin Neutrik XLR (1=DC+ 2=DC- 3=signal)
24V Model	Unterminated 4 Conductor Cable

INTERFACE

Dual Tactile Push Buttons for Field Setup
128x64 OLED Graphical Display for Charge / Profile Info
LIN Bus on Signal Pin for PC Communication and Firmware Updates (Requires Custom Cable)

REGULATORY CERTIFICATIONS

Safety	UL 1012, CSA C22.2 No. 107.2, CE / IEC 60335-1/2-29
Emissions	FCC Part 15 B, EN55014, EN 61000-3-2, EN 61000-3-3
Immunity	EN 61000-4-2/-3/-4/-5/-6/-11

DESIGNED IN CANADA

The engineering and design team behind the Satiator are avid ebike users with years of experience in electric vehicle technology. This product is the charger they always wished they had, and we hope you feel the same way too.

FOR OEM AND BUSINESSES

In addition to electric bike enthusiasts, this charger is of great value to ebike businesses that need to manage a range of battery packs, and for OEMs wanting to distinguish their vehicle with a rugged and modern full featured charger.

CERTIFICATIONS

This device is CSA, UL, and CE listed, meaning it has passed rigorous safety and reliability tests, and can be legally resold in most jurisdictions.