



LFPO Start-Stop Battery Green Run 2 Series

SS1250

13.2V50Ah

SS12100

13.2V100Ah

PRODUCT HIGHLIGHTS

- Drop-in replacement for your VRLA battery
- No voltage sag with stable power output
- $\geq 3x$ the instantaneous discharge current of VRLAs
- Low self-discharge rates
- 2-3x the lifetime of VRLA batteries
- No memory effect
- Lightweight, low maintenance and green
- Full IP-protection

SPECIFICATIONS

	SS1250	SS12100
Nominal Voltage	13.2V	13.2V
Capacity	50 Ah @ 0.2C	100 Ah @ 0.2C
Impedance (ACIR)	<10 m Ω	<10 m Ω
Cell-Balancing Mechanism	Dynamic balance	Dynamic balance
Storage Temperature	-20-40°C	-20-40°C
Storage Humidity	R.H. 15~90%	R.H. 15~90%

CHARGING

Maximum Charging Voltage	$\leq 14.8V$	$\leq 14.8V$
Max. Continuous Charging Current	50 A (1C)	100 A (1C)
Working Temperature (Charging)	0-45°C	0-45°C

DISCHARGING

Working Temperature (Discharging)	-20-60°C	-20-60°C
Pulse Cranking Amps, PCA	1529A	1807A
Room Temp. Cranking Amps, RCA	1117A	1449A
Cranking Amps, CA	710A	1190A
Cold Cranking Amps, CCA	448A	655A

WEIGHT AND DIMENSIONS

Weight	8.5 Kg	10.5Kg
Dimensions (mm)	W276 x D175 x H191	W276 x D175 x H191 W353 x D175 x H191

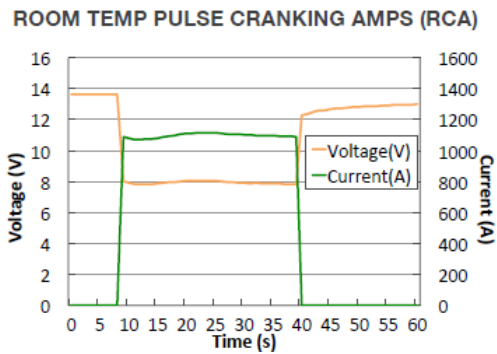
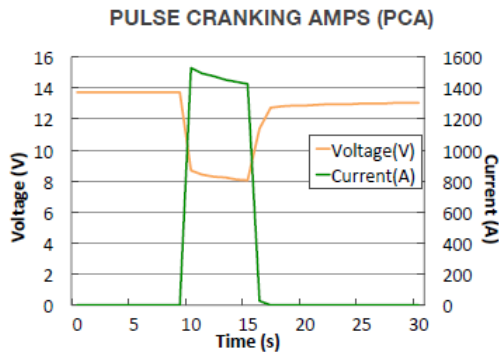
A WORD ABOUT CCA

-At first glance; lead acid batteries appear to handle the cold better, and at times show a higher CCA than batteries using LFPO cathode material. However, upon closer examination, the superiority of our unique LFPO chemistry becomes clearer.

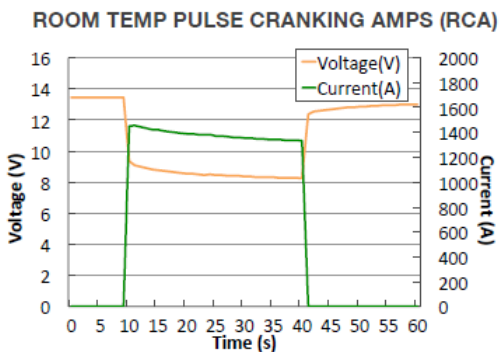
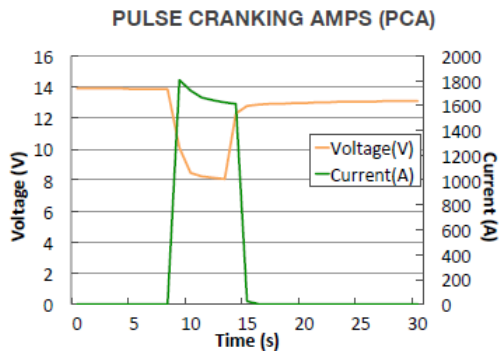
-It comes down to this, lead acid battery's amps decrease with each cold crank. On the other hand, our Green Run 2 series' amps increase with each cold crank.

-CCA has been the battery quality determinant for decades. So, what now? **For lithium batteries, a more accurate indicator of its performance is its PCA, or Pulse Cranking Amps.**

SS1250



SS12100



COMPARISONS: VRLA BATTERIES vs. LFPO BATTERIES

Item	VRLA BATTERIES	LFPO BATTERIES
CORPORATE SOCIAL RESPONSIBILITY		
Safety	Release corrosive hydrogen gases that are health and explosions hazards, respectively.	No safety risks—non-explosive and no harmful or explosive gases..
Environment	Toxic heavy metals and acid are harmful. Must be disposed by professional recycling agents.	Sustainable and environmentally friendly —Completely non-toxic and non-corrosive
PERFORMANCE		
Discharging	During high-rate discharge, voltage decreases over time, reducing output stability; one must increase capacity to overcome this issue.	Display significantly higher effective capacity than VRLAs. The power stability and efficiency are kept with no need to increase capacity.
Energy Density	Low power density: 40Wh/kg	2.5x higher energy density: 82-135 Wh/kg
Power Output	Instantaneous: 3C; Continuous: 1C	Instantaneous: $\geq 15C$; Continuous: $\geq 5C$
TOTAL COST OF OWNERSHIP		
Weight	12V80Ah: ~20kg; 12V105Ah: ~29kg	Half as heavy as VRLAs. 12V50Ah: 8.5kg; 12V100Ah: 10.5 kg
Accessories	Lower performance of electronic accessories (e.g. AC/lights/sound systems/touch panels)	Greater power to enable brighter displays with enhanced sound quality and comfort
Life Expectancy	Deep-discharge cycle life is 300 times usebetween replacements	$\geq 2-3x$ the lifetime of VRLA batteries. Deep-discharge cycle life of 1000 times without the need for constant replacements.
Temperature Tolerance	Poor performance with decreased effective capacity at high temperatures (-20°C to +45°C)	Optimally operational over a wide temperature range for vehicle applications (-20°C to +60°C)

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