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RELiON AWP  
THE HEIGHT OF  
PERFORMANCE

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RELi<sup>3</sup>ON<sup>®</sup>

# FEATURES AND BENEFITS – LITHIUM

BENEFIT	FEATURE
SAFETY	Inherently safe chemistry. PCB/BMS provides extra protection.
DROP-IN REPLACEMENT	Available in standard industry sizes.
LIGHTWEIGHT	50-60% less weight than lead-acid equivalent.
LONGEST LIFE	Up to 10X longer cycle life than lead-acid equivalent.
MORE USABLE CAPACITY	25-50% more capacity than lead-acid equivalent.
CONSTANT POWER	Full power available throughout discharge. Voltage does not drop like lead-acid.
TEMPERATURE TOLERANT	2.5X more efficient operation at low temperatures. Safely operational up to 149°F (65°C).
CHARGING – FAST & SAFE	Highly efficient charging. Can fully charge in 1-3 hours. Built-in overcharge protection.
PSOC TOLERANT	No damage from partial state of charge operation or storage.
LONG SHELF LIFE	Low self-discharge so battery maintains state of charge.
MAINTENANCE-FREE	Plug, play and charge. No watering.
NON-HAZARDOUS	No gasses emitted.
INSTALLATION FLEXIBILITY	Can be installed upright or on its side.
CUSTOMIZABLE	Easy to customize for your size and power needs.

# LITHIUM PRODUCT SPECIFICATIONS

Part Number	BCI Group Size	Capacity <sup>A</sup> @ 25°C (77°F)		Energy (Wh)	Dimensions inches (mm)			Weight lbs (kg)	Terminal Type
		Ah	Min @ 25A		Length	Width	Height		
<b>12V</b>									
<b>RB35</b>	U1	35	84	448	7.7 (196)	5.2 (131)	6.1 (155)	10 (4.5)	M8
<b>RB40</b>	NA	40	96	512	7.8 (199)	6.5 (166)	6.7 (171)	14 (6.5)	M8
<b>RB50</b>	NA	50	120	640	7.8 (199)	6.5 (166)	6.7 (171)	15 (6.8)	M8
<b>RB60</b>	24	60	144	768	10.2 (260)	6.7 (170)	8.6 (219)	20 (8.9)	M8
<b>RB75</b>	24	75	180	960	10.2 (260)	6.7 (170)	8.6 (219)	26 (11.8)	M8
<b>RB80</b>	27	80	192	1024	12.1 (308)	6.8 (172)	8.7 (221)	28 (12.7)	M8
<b>RB100</b>	31	100	240	1280	13.0 (329)	6.8 (172)	8.9 (226)	32 (14.5)	M8
<b>12V DIN</b>									
<b>RB80-DIN</b>	DIN	80	192	1024	13.2 (335)	6.9 (175)	7.5 (191)	26 (11.6)	M8
<b>RB100-DIN</b>	DIN	100	240	1280	13.2 (335)	6.9 (175)	7.5 (191)	29 (13.3)	M8
<b>24V</b>									
<b>RB24V50</b>	31	50	120	1280	13.0 (329)	6.8 (172)	8.9 (226)	32 (14.5)	M8
<b>RB24V100</b>	NA	100	240	2560	19.3 (490)	6.7 (170)	10.6 (270)	53 (24.2)	M8
<b>48V STEEL CASE</b>									
<b>RB48V100</b>	NA	100	240	5120	22.8 (578)	16.1 (410)	7.8 (198)	145 (66)	Amphenol

A. The amount of Ah or minutes the battery can provide when discharged at a constant current to 2.5vpc at 25°C (77°F).

# RELiON LITHIUM

Heavy workload? Tight deadlines? No time to worry about your batteries? RELiON Lithium Iron Phosphate (LiFePO<sub>4</sub>) batteries don't require maintenance or special treatment, even in harsh conditions. Concerned about battery neglect? No problem. Just charge 'em up and go to work. It's that simple.

**TAKE CHARGE:** Partial state of charge, known as PSOC, which is a killer of lead-acid batteries, does not affect performance or battery life of a lithium battery. Sometimes batteries don't get fully charged, or they regularly operate in a partial state of charge. Either way, you can count on RELiON lithium batteries living a long and productive life.

**MORE HOURS OF POWER:** RELiON lithium batteries provide 2-3 times more energy than traditional lead-acid batteries, at half the weight and they maintain a constant level of power so you can raise and lower your lift repeatedly without worrying about getting stuck.

**ULTRA-LONG LIFE:** RELiON lithium batteries provide up to 10 times longer life than lead-acid batteries, and they still provide 80% of rated capacity after 2,000 cycles. Spend more time powering your applications and less time replacing your batteries.

**WORRY-FREE:** RELiON lithium batteries are maintenance free – no watering, no corrosion. Low self-discharge means the batteries don't lose capacity when they're idle, assuring that you have the energy you need, every time you need it.

**THE RIGHT FIT:** RELiON lithium batteries are available in a variety of BCI standard sizes for easy drop-in replacement. Looking for a custom solution? No problem! Our Certified PowerPros will work to design the best system for your needs.

**BUILT-IN PROTECTION:** Every RELiON lithium battery comes with a state-of-the-art battery management system (BMS) or a protection circuit module (PCM) that helps prevent over-charge, over-discharge and short circuit conditions. Battery cells are enclosed in explosion-proof stainless steel casings. Built-in thermal fuses and other safety features offer added protection.

**ECO-FRIENDLY:** RELiON lithium batteries are the ultimate clean energy. No gassing, no fumes and no pollution. Enjoy reliable power while protecting the environment, using these non-hazardous batteries.

**SAFETY TESTED:** Unlike other lithium chemistries, RELiON LiFePO<sub>4</sub> batteries are inherently safe due to their stable chemical composition, and we have the UL1642 and IEC62133 test results to prove it.

**BACKED BY THE BEST:** Built to last, designed to perform, premium RELiON lithium batteries deliver unsurpassed performance wherever you roam. We back this claim with a comprehensive 5-year warranty.

## TERMINAL CONFIGURATIONS



M8



Bolt with lock washer & regular washer

## AMPHENOL CONNECTORS





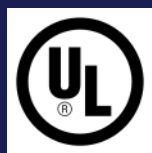
# THE POWER BEHIND THE PROMISE

You may know us as a battery manufacturer, but first and foremost, we're in the relationship business. At RELiON, we pride ourselves on creating and maintaining long-term relationships with members of our supply chain, original equipment manufacturers, distributors and end users. How do we do it? We're invested – in the success of our customers, our partners, our employees and our future. It's a promise we make and keep every day.

**INVESTED IN OUR PEOPLE.** We value knowledge, experience and interpersonal skills, so we seek out the best and brightest. When it comes to innovation, we have the sharpest minds in the business designing, building and testing our products. Our sales and customer service staff is dedicated to doing right by our customers every time. And, our technical support team has the knowledge you need to answer even the toughest energy questions. In a nutshell, we only invest in people with the industry experience, training and relationships to ensure our customers' success.

**INVESTED IN OUR SERVICE.** Every one of our customers enjoys unparalleled support from RELiON's team of certified PowerPros. Our job is to understand everything about our customers' needs now and help them anticipate the future. We have the expertise to answer all types of battery questions. Every topic from maintenance to recycling to customized solutions for any application. And, since time is valuable, we commit to responding to inquiries within 24 hours.

**INVESTED IN OUR FUTURE.** At RELiON, we invest major effort and resources in new product development so we can help our customers meet their long-term energy goals, no matter what the application. In addition, we're constantly striving to increase our contribution to a healthier planet through clean, green energy solutions so we can leave the earth a better place for future generations.



ISO 9001:2008 Quality Management System  
ISO/TS 16949:2009 Quality Management System  
ISO 14001:2004 Environmental Management System  
OHSAS 18001:2007 Occupational Health and Safety Management System  
Certifications Applicable to the Design and Manufacture of  
Lithium Iron Phosphate Batteries

When it comes to reliability, our lithium batteries won't let you down. Contact your local distributor, visit [www.relionbattery.com](http://www.relionbattery.com) or talk to one of our Certified PowerPros.

Call Toll-Free (US Only): 1 (844) 385-9840  
All International Calls: +1 803 547 7288



RELiON Battery provides our customers with the highest quality and safest lithium products, in compliance with all regulatory standards.

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