

# Charged Up



## ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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### Officers:

President: Joseph S. Gottlieb

Vice President: Lloyd Rose

Treasurer: Richard Rodriguez

Secretary: David Crow

Program Chairman: Staff

Newsletter Editor: Tom Dulaney

Webmaster: Russ Lemon

Librarian & AV: Lloyd Rose

**Regular Meetings:** Our meetings are on a different schedule, please check date below (No Meeting in December).

**Location:** SDG&E Innovation Center  
4760 Clairemont Mesa Blvd.  
San Diego, CA 92117

**Next Meeting:** *March 27th, 6:30 PM (WEDNESDAY)*

**Program:** How many chargers are enough?

### Newsletter Editor's

#### Message:

UPS is advertising Hybrid technology on their delivery trucks. What have you seen on the road? Send your images.



Big thanks to Dave Crow for the cool article about EV racing motorcycles.

### Inside this issue:

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## Brammo AFM

Dave Crow: I consider this an incredible breakthrough for electric vehicles! It is already known that the electric motorcycle industry is well represented by the strong sales by Brammo and Zero Motorcycles. They offer a range of models for on and off road use. The special racing category of TTXGP for electric motorcycles has been running for the last couple of year; but separately from the rest of motorcycle racing. Now an established ICE motorcycle racing organization, American Federation of Motorcyclists (AFM) has welcomed qualified electric motorcycles to race side-by-side with the gassers. Even though AFM is a relatively small non-profit organization of enthusiasts that race only at a few tracks in California, this is a great start. Congratulation to Brammo!



## Brammo

Empulse electric motorcycles approved to race against gas bikes in AFM series - Torquenews.com

By David Herron on Wed, 03/06/2013 - 14:48 for TorqueNews.com

In a historic move for the electric motorcycle racing, the AFM has approved Brammo's Empulse electric motorcycle line to race for points and championship standing in regular gas bike racing.

On Tuesday, Brammo and the American Federation of Motorcyclists (AFM) announced an agreement allowing Brammo's electric motorcycles, the Empulse R, Empulse TTX and Empulse RR, to enter AFM's motorcycle racing series.

This historic move marks the first time racers on electric motorcycles will be racing against gas bikes for points and championship standing in a racing series. The agreement covers not only Brammo's own team, Team ICON Brammo, but any owner of an Empulse R or TTX, and additionally owners of electric bikes made by other manufacturers will also be able to run in AFM racing.



Qualification requires two steps: First the rider must be qualified for AFM racing. Second, the electric motorcycle must conform to technical regulations, and the team must follow certain safety practices in their pit area. The Empulse R and TTX bikes are pre-qualified on a technical basis, and the AFM has already determined those bikes can race in certain lightweight classes. The Empulse RR bikes are Brammo's non-production prototype platform, will only be raced by Team ICON Brammo, and the AFM has determined these bikes can race in certain middleweight classes. Electric motorcycles built by other manufacturers will be evaluated on a case-by-case basis to determine which class(es) the bike can race in, and whether the bike and team meets technical requirements. Interested racers should contact the AFM ahead of time to discuss technical requirements, class eligibility, and permission to run their bike.

The AFM has adopted technical regulations from the TTXGP integrating them into AFM's own rulebook. The TTXGP electric motorcycle racing series has run since the summer of 2009, and their rules are based in part on FIM's own rules

as well as TTXGP's experience in running a race series spanning three continents.

The Brammo Empulse R is the company's flagship electric motorcycle. It has a 100+ miles/hr top speed, a 121 mile riding range (city), and looks that match any street bike. The company began deliveries a couple months ago.

The Empulse TTX is a variant of the Empulse R that is outfitted to match the TTXGP technical requirements. According to a Brammo spokesperson the kits to convert an R into a TTX are not yet available.

The Empulse RR is a top-of-the-line electric motorcycle which serves as Brammo's prototype platform. At the TTXGP 2012 World Championship race at Daytona International Raceway last fall, both Steve Atlas and Eric Bostrom were hitting 170 miles/hr speeds during race conditions. Earlier in the season the two were hitting lap times that matched 600cc gas bike racers.

In other words the Brammo bikes should do well in the AFM competition. The primary likely competitor to theirs are the 2013 Zero S and DS manufactured by Zero Motorcycles. The two companies are playing leapfrog with speed and range, and the 2013 Zero S specs to be not quite as fast at the top end as the Empulse R.

Brian Wismann, Director of Product Development for Brammo, said: "This announcement is a true milestone in the history of electric motorcycle racing as an opportunity for our bikes to compete amongst their gas powered counterparts on even terms rather than just as an exhibition or in a single race. It's going to be a challenge to be competitive as the gas bikes have about 100 years of development time on us, but we're excited about the chance to pit the Brammo Empulse against the best efforts from Honda, Kawasaki, Suzuki and Yamaha."

Berto Wooldridge, President of AFM Racing said; "What caught AFM's attention about Brammo's approach was that they were not asking for a separate class, but were instead looking to have a chance for their bikes to compete within the existing class structure and go head to head with gas-powered bikes of similar performance and power-to-weight. We believe this to be a historic moment in motorcycle racing and are happy to have made it possible."



Tom Dulaney: My friend Greg Bruno and I attended the Royal Purple 300 at the Auto Club Speedway in Fontana last Saturday.



Chevy was promoting the Volt with a big display.



# Electric Auto Association (EAA) Membership Application Form

Fill out this form, attach a check, money order or use PayPal, in US funds only, payable to 'Electric Auto Association'. CE = Current EVents newsletter

e-CE  \$35 USA & other Countries  \$25 Student  \$25 Senior (>65-USA/Canada only) birth year

paper CE  \$45 USA  \$48 Canada  \$52 World  \$29 Student  \$29 Senior (>65-USA/Canada only)

\$120 (supporting level-1)  \$240 (supporting level-2)  \$500 or more (high voltage)\_\_\_\_\_  do not list my name

I support the \_\_\_\_\_ EAA Chapter (additional chapters, \$10 each) \_\_\_\_\_

(\$10each ) Additional Chapters or Special interest group (other than the one that comes with the membership)

You can fold this form as indicated and mail it with your payment enclosed. Use tape to seal the form, **on the sides**, before you mail it or send an e-version of this form, through PayPal using <http://electricauto.org/eamembership.html>

New Member  Renewal

Name  email

Mailing address (Apt. #)  Home phone

Mailing City, State & Zip-8  Work phone

Electronic version of Current EVents, paperless only, link sent by email, if your membership was for the e-version, that is what you will receive

Do you own or  Lease an electric vehicle (plug-in)  production  conversion  bicycle  hybrid or  None

please include miles driven and type of vehicle

All information in this application is for the exclusive use of the EAA and not sold or given to any other organization.

**Please identify your primary areas of interest relating to the EAA (check as many as your wish)**

Owner/Driver  Hobby/Builder  Professional/Business  Competition (Rallies, Races, Records)  Plug-in Hybrids

Environmental/Govt. Regs  Social (Rallies, Shows, Events)  New Technology & Research  Solar & Wind Power

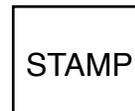
Promotion & Public Awareness of EVs  Student or General Interest  Electrathon/Bicycle/Scooter/Other

The Electric Auto Association is a non-profit, 501(c)(3) for the promotion of electric vehicles. Your donations are tax deductible and with your membership you will receive the EAA publication, "Current EVents". All information and statistics in this application are for the exclusive use of the EAA and is not sold or given to any other organization or company. Your membership dues include a percentage goes to the EAA Chapter you support for public Electric Vehicle promotion EVents like rallies, shows and EV rides.

Current subscribers have borrowing privileges for the association's video tape and publications library. Subscribing to the newsletter is optional and is not a requirement for membership. EVAOSD meetings are always open to any and all interested parties. New Subscribers, please use this form to register to receive the EVAOSD Newsletter. Current Subscribers, please use this form to send us any change in your details.

Please make check or money order payable to: EAA and reference EVAOSD. Send this form and payment to: Lloyd Rose, EVAOSD Treasurer; 2755 Dos Aarons Way, Suite A, Vista, CA 92081

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