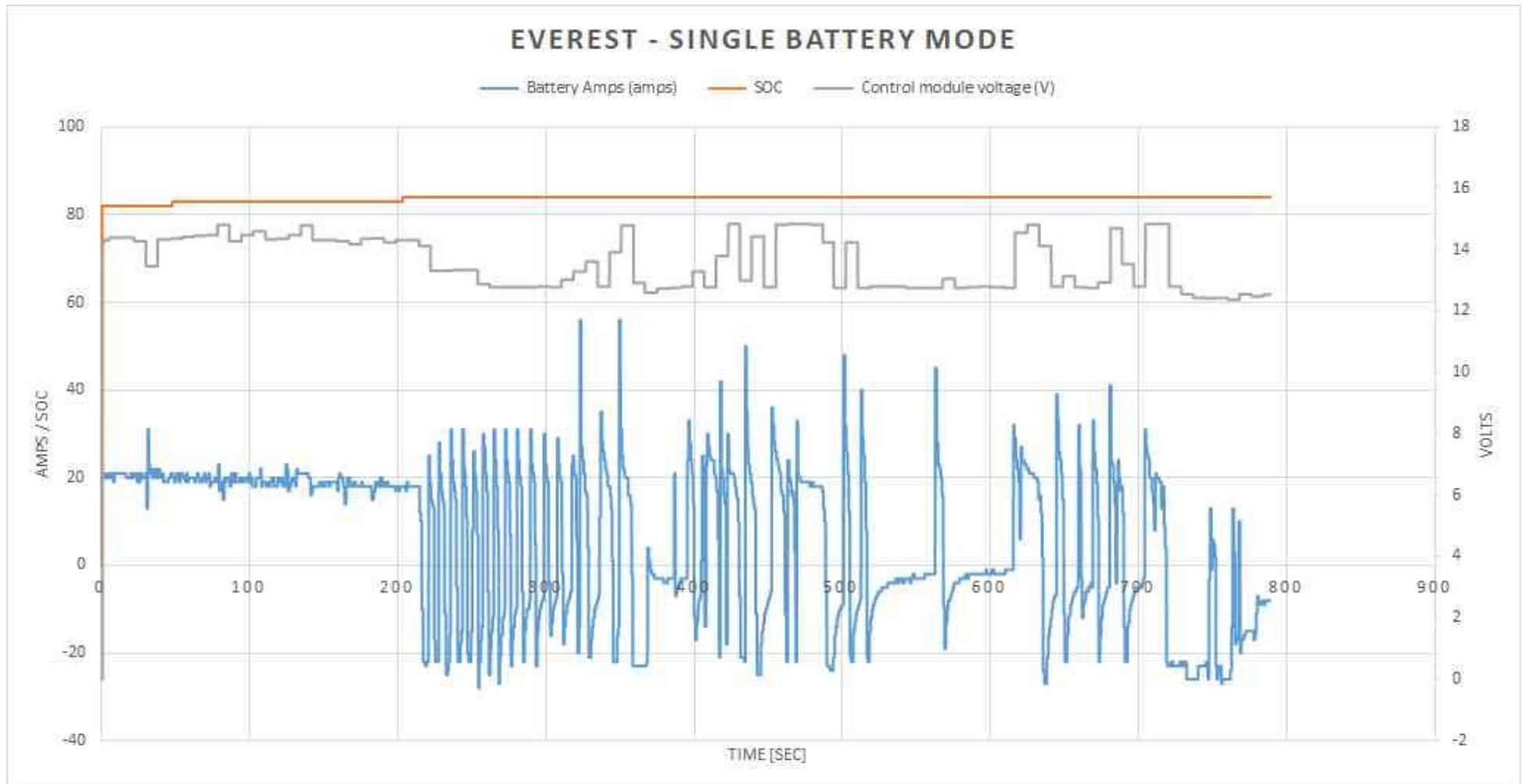
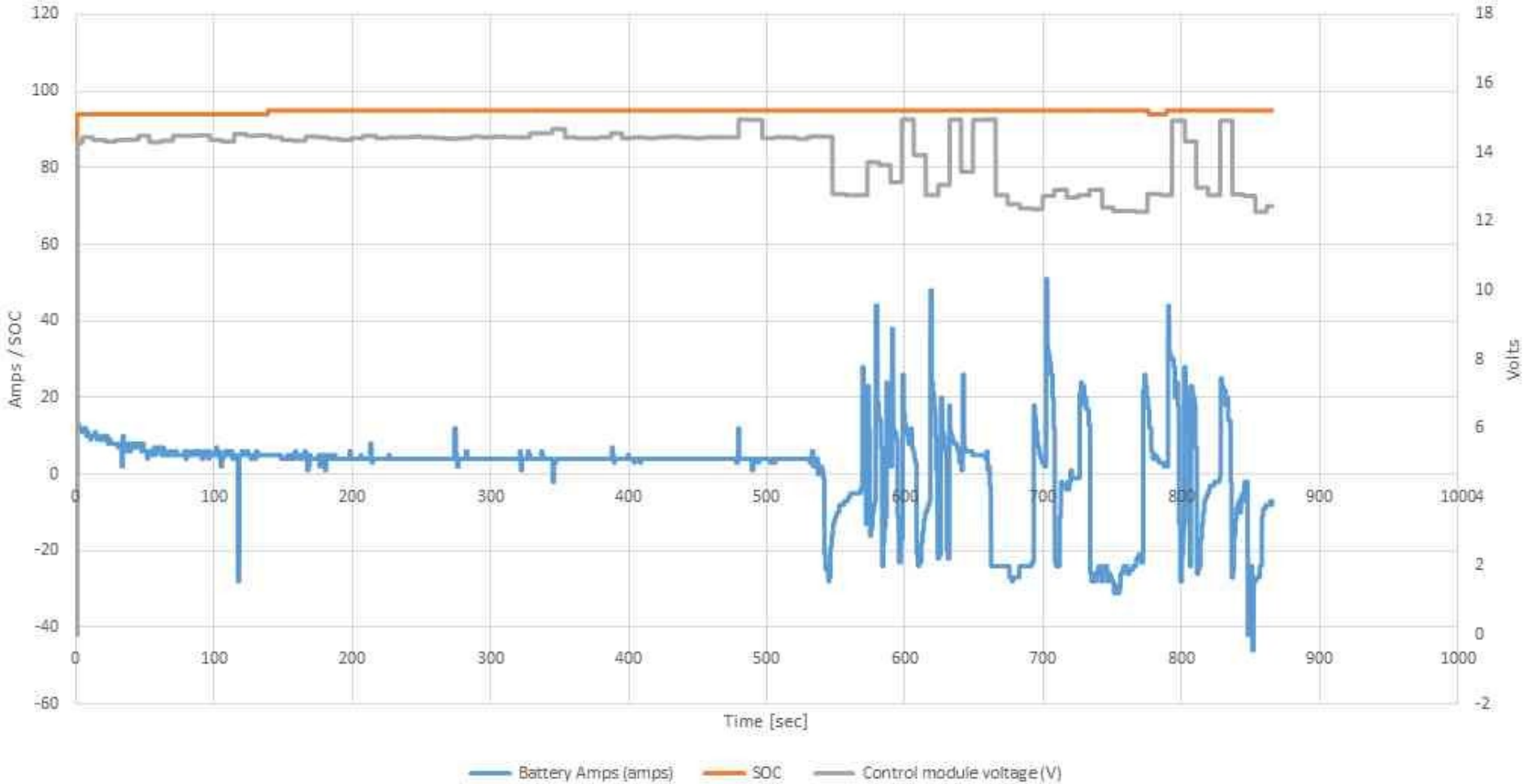


Here are some readings from my 2018 Ford Everest [same electricals as PX Ranger]

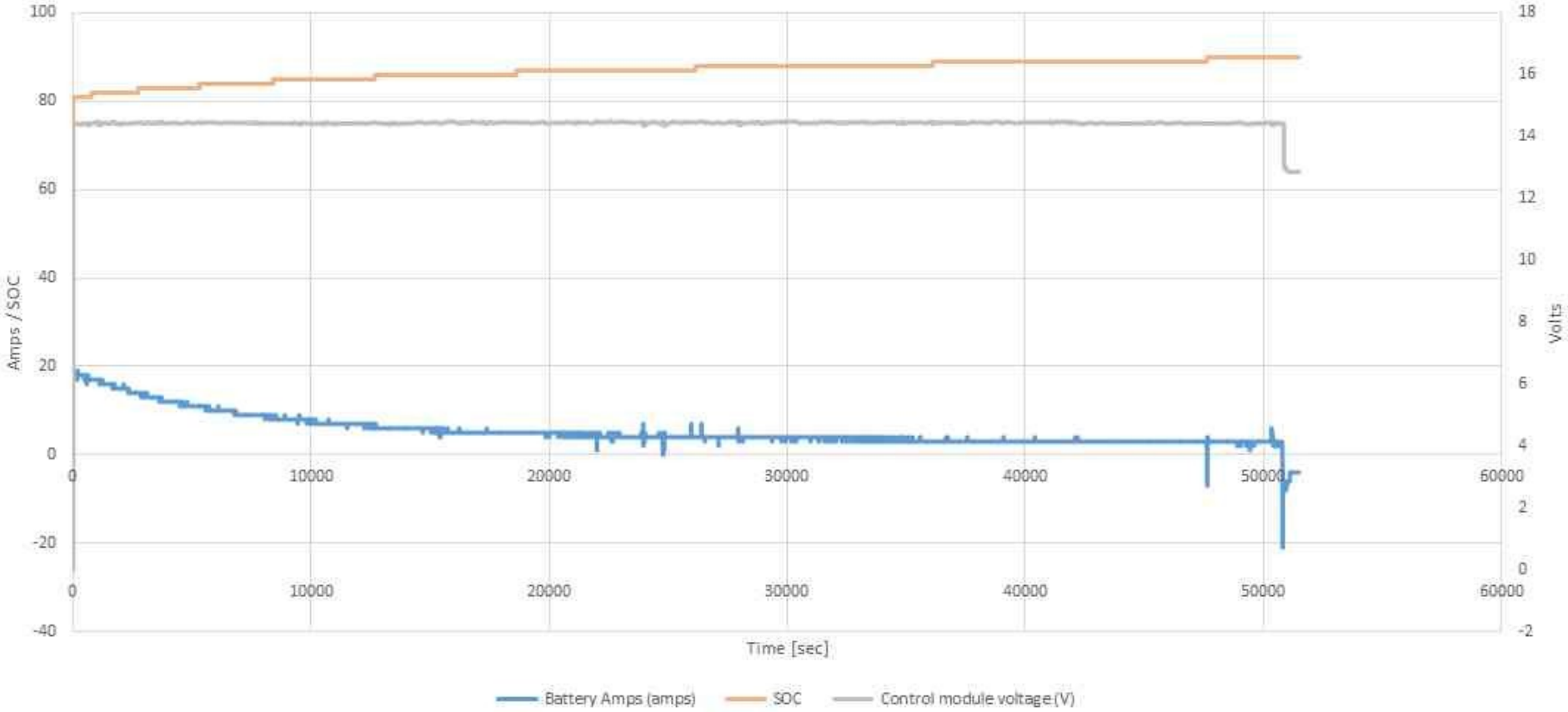
So.... I've run some tests measuring Volts, Amps & SOC for Single Battery, 90% Dual Battery & 100% Dual Battery - See attached output



Everest - Dual Battery 90%



Everest - Dual Battery 100%



Single battery charges to around 85% SOC and then the alternator starts to cut in and out with charge fluctuating [+ -] 20 Amps in a very erratic manner. Is this normal? - have others experienced this erratic charging behaviour? I would have expected a smoother response from the alternator.

Dual Battery 90% has a similar behaviour - but charging to about 95%. It would appear that the BCM is monitoring the SOC and cutting the alternator voltage when the target SOC is reached.

Full Dual Battery 100% Shows much smoother charging with a constant 24/7 14.4 Volts & Amps slowly reducing as the battery slowly reaches maximum charge as you would expect. It did not reach 100% SOC this run - bit over 90%, but it did before & I expect with constant 14.4 V charging it will eventually reach 100% again.

<https://4x4earth.com/forum/index.php?threads/ford-ranger-controlled-charge-system.23838/>