1) While alternator is charging, and shore is not connected (and generator not running):
a) what do you have at batteries? 14.30
b) What do you have at LVD input? 14.07
c) What do you have at LVD output? 14.07
d) what do you have at the fuse panel (distribution panel) when measuring between BATT POS+ and NEG- BATT posts? 13.74
e) what do you have at the fuse panel (distribution panel) when measuring between CONV POS+ and NEG- CONV posts? 13.74

2) Turn engine off (alternator not charging now), and shore is not connected (and generator not running):
a) what do you have at batteries? 12.45
b) What do you have at LVD input? 12.41
c) What do you have at LVD output? 12.41
d) what do you have at the fuse panel (distribution panel) when measuring between BATT POS+ and NEG- BATT posts? 11.87
e) what do you have at the fuse panel (distribution panel) when measuring between CONV POS+ and NEG- CONV posts? 11.85
f) what do you have at batteries? 12.40
This is just a double check in case you quickly lose .1V of surface charge while measuring everything (I don't think it happens that fast, but I've never actually checked). E.g. if batteries are 12.5, then measuring b-e you get some at 12.4, I want to see if batteries have settled to 12.4 during measuring.

3) Engine off (alternator not charging), and shore IS connected and should be charging (and generator not running):
a) what do you have at batteries? 12.49
b) What do you have at LVD input? 12.42
c) What do you have at LVD output? 12.42
d) what do you have at the fuse panel (distribution panel) when measuring between BATT POS+ and NEG- BATT posts? 13.7
e) what do you have at the fuse panel (distribution panel) when measuring between CONV POS+ and NEG- CONV posts? 13.7