East Tester Lirectly Cutput 9 to butty ET541A+ Any difference from Fluke and Rigolwood be Dum very small DMM Both are reading same amount 38. I mm trace width (double sided) V76.4mm Distance between Connectes - 28 mm trace would be any Dottle hock Temporare - FLIR C3-X Thermal Camera Test 1) 15 A room Ambient 21°C nochange intrace temperative Fluke - input - 16.12V 12 izal - Output - 15.952 V PInput - 241.8W 16.12-15.952 = 0.168V POHPUT - 239.29 W Test 2) 10A Fluke - input - 15.59V 12 izal - Output - 15.479V Tes+3) 5A Fluke - input -15.44V 12 iz of - Output - 15.382 V

Test 4) 1A Fluke - in put - 15.50 V Pind - output - 15.49

V=IR

V=R ->

I

Battery 2

LOSS of Wires

Input 16.41V 0.182 Output 16.228 = 0.182

Test 2: with PCB

Input: 16.40 16.40 -16.185 = 0.215

Output: 16.185

we tested the wires saprately to account for vire loss

0.215 - 0.182 = 0.033 only PCB

 $0.033V \cdot 15A = 0.495W$

Test 3) 5A Wirelosses

Input - 16.58V 30.066 V -> 0.33 W

With PCB Input - 16.58V 3 0.077V -> 0.385 W Output - 16.503 V 3
Input - 16.58V 7 0 072V -> 0.385 W
Output - 16.503 V 3