



$V_{batt} = 12\text{vDC}$   
 $V_{pack} = 33 * V_{batt}$   
 $V_{pack} = 33 * 12$   
 $V_{batt} = 396\text{vDC}$   
 $V_{diff} = 587 - 396$   
 $V_{diff} = 191\text{vDC}$   
 $V_{each} = V_{diff} / 2$   
 $V_{each} = 95.5\text{vDC}$   
 $P = V * V / R$   
 $P = 95.5 * 95.5 / 100$   
 $P = 91.2 \text{ W}$