|  |  |  |
| --- | --- | --- |
| Rpm/v | 10v | 28v |
| 1790 rpm @ 10 km/h | 179KV | 63KV |
| 6176 rpm @28 km/h | 617KV | 220KV |

I'm still in the mist of what motor I need to use considering that I'm able to flow 300W at once into a lipo battery using the above stated battery balancer. My problem is the two intervals we'll be facing: pedalling speed and voltage input (cr. Attachment).

Following your definition of Kv, it makes sense to spend my own human energy as economical as possible. A motor with the lowest Kv value (63Kv), serves this goal: I can pedal at a slow pace while generating the highest voltage output (28v). However, I know I can pedal much faster and release more human energy. As I don't want anything to blow up, I should limit the generated power with a motor with a higher Kv. In this case, I would choose the 220Kv motor. This is because I am at hitting 28v as the preferable output instead of a lower 10v.

While writing this process, one question comes to my mind: what voltage output SHOULD I be aiming at? You did not mention anything about current and amps. I reckon if we know this, we could determine what motor is the most appropriate choice for use in combination with the 300W battery balancer?