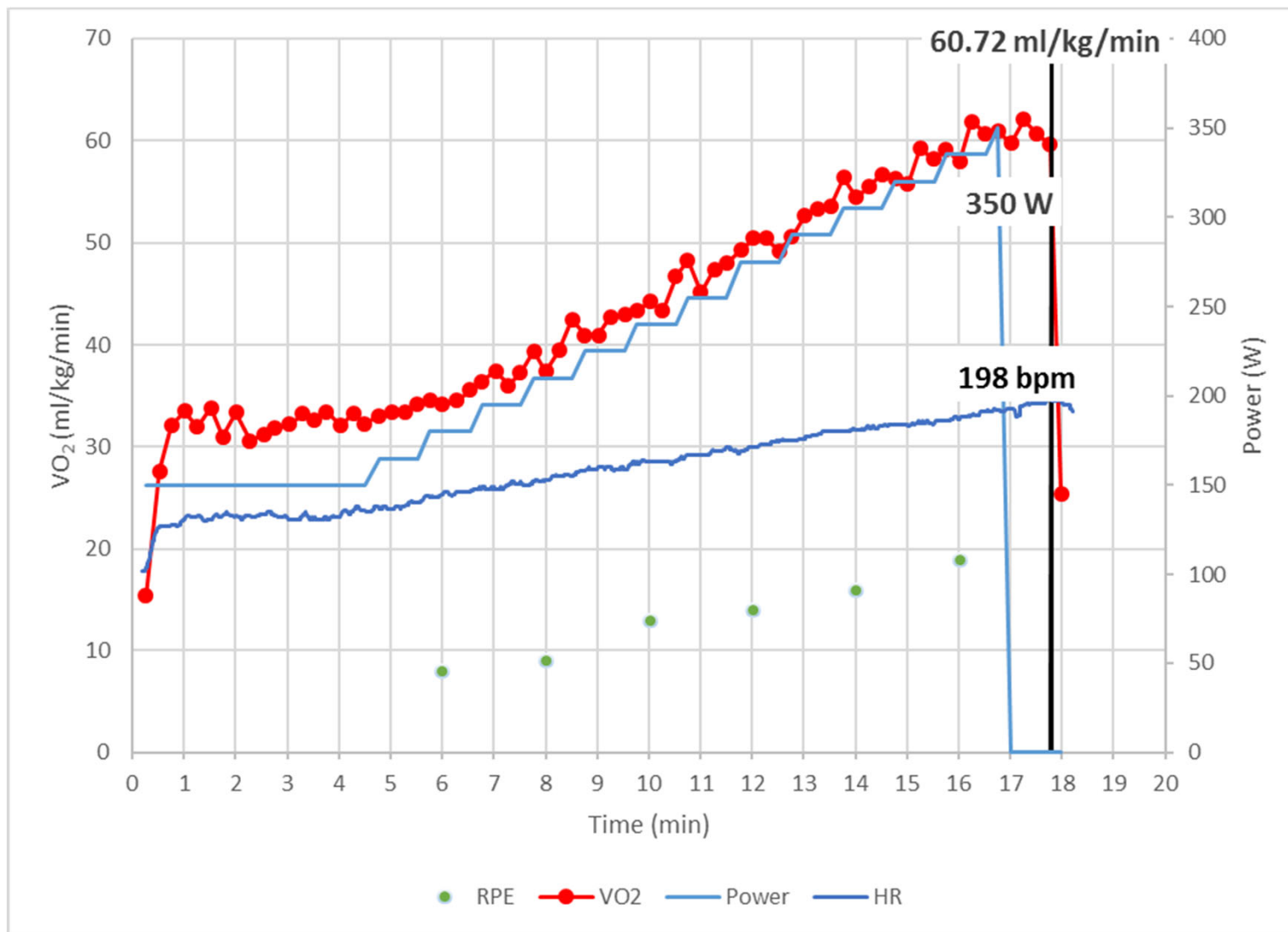


Fick Equation

- $\dot{V}O_2 = Q_c(a-v)O_2$
 - $\dot{V}O_2$: Rate of oxygen consumption
 - $Q_c = HR \times SV$
 - HR: Heart rate
 - SV: Stroke volume; amount of blood ejected with each beat
 - $(a-v)O_2$: Difference in the amount of oxygen in arterial and venous blood
 - Represents how much oxygen was extracted from the blood
- **$\dot{V}O_2 = HR \times SV(a-v)O_2$**

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VO2 vs. HR

