

(2pts) 20. How long does it take a 20A battery charger to deliver a charge of 10^4 C?

$$Q = I \cdot t$$

- where Q = quantity of electricity/charge (coulombs) = 10^4 C

I = current (amps) = 20A

t = time (seconds)

$$10^4 = 20 \cdot t$$

$$t = 10^4 / 20 = 500 \text{ seconds}$$