A lightning bolt carrying 10000 A of current lasting 45 μs strikes a golf cart. Calculate the charge deposited on a golf cart hit by the lightning strike.

\[ Q = I \cdot t \]

where 
\[ Q = \text{quantity of electricity/charge (coulombs)} \]
\[ I = \text{current (amps)} = 10000 \text{A} \]
\[ t = \text{time (seconds)} = 45 \mu s = 45 \times 10^{-6} \text{ seconds} \]

\[ Q = 10000 \cdot 45 \times 10^{-6} = 0.45 \text{ C} \]