

# The Case for Copper

ΩMEGA PA 250i



## Boost Efficiency

With copper tabs, power cell efficiency significantly improves. And when the customer experience is all about battery performance, copper is king!

	Copper Tabs	Nickel Tabs	The Copper Difference
Conductivity	$1.18 \times 10^7 \sigma$	$5.96 \times 10^7 \sigma$	<b>5x</b> More
Resistivity	$1.68 \times 10^{-8} \rho$	$8.50 \times 10^{-8} \rho$	<b>80%</b> Less
Price <small>as of 19 OCT 2020</small>	USD \$3.09/lbs	USD \$7.16/lbs	<b>57%</b> Savings
Nugget Area	5.06mm <sup>2</sup>	0.29mm <sup>2</sup>	<b>17x</b> Larger
Nugget Diameter	2.54mm	0.61mm	<b>4x</b> Larger
Peel Strength	10kg/22lbs	6kg/13lbs	<b>66%</b> Stronger
Thickness	0.010 - 0.020"	0.005 - 0.010"	<b>2x</b> Thicker



## Save Money

Copper tabs will connect your power cells more efficiently and do it for more than half the price compared to some nickel.



## Weld Confidently

With copper, attach a thicker tab for a larger spot size and improved peel strength. Plus, the heat affected zone is small, quick and won't damage the power cell's internal components.



**sunstone**  
The Micro Welder Experts

