

# CNC Driven – Orion 250i<sup>2</sup> EV Battery Welding System— **TAB WELDING WITH SPEED**



**MADE** IN THE **USA**

## TECHNOLOGY: **Pulse Arc**

### The Orion 250i<sup>2</sup> EV – CNC – Battery Welding System

- Weld Copper Tabs as Thick as .020" (0.51mm)
- Spot weld thin conductive/resistive metal sheets
- Weld Feedback to XYZ Robot
- Weld Schedules and Programs Possible
- Uniform Weld Spot Diameters
- Easy Automation

**Need supplies or other battery pack accessories?** We have everything you'll need to create battery packs and maintain your Orion 250i<sup>2</sup> EV system. Visit our website at: [www.sunstonewelders.com](http://www.sunstonewelders.com) or call us anytime at: **+1-801-658-0015**.

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# SYSTEM SPECIFICATIONS

Power Supply	
Energy (min-max in Joules)	0.01 – 250
Current (min-max in Amps)	6 – 1000A
Power Settings	20,000
Length (min-max)	0.1 – 100ms
Length Settings	6000
Weld Spot Diameter Range	≈ 0.1 – 4.5mm
High Frequency Agitation	Multiple/Advanced
Pulse Shaping	Advanced
*Max Welding Speed (Hz)	30Hz
*Max Charging Time	1.2s
Internal Weld Monitoring	yes
Display (Touch Screen)	10" (25cm) Full
Languages	25 +
Welder (L x W x H)	4.9" x 4.9" x 27" 12.4 x 12.4 x 68.5cm
Voltage	90–230VAC Single Phase 2A Max Consumption
Save Settings Spaces	1000
CE Certificate	yes
USB Upgradable Software	yes

CNC System	
Electrodes Collets	0.5 – 1.5 mm
Programs	999
Points	32,000
Steps	1000
Inputs/Outputs	16/16
External Device Control	RS-232C
Weight	100lbs (45kg)
Z Travel Distance	6" (15.24cm)
XY Max Rapid Travel Speed	900 mm/sec
Z Max Rapid Travel Speed	400 mm/sec
XYZ Robot Positional Tolerance	+/-0.007 mm
XYZ Robot Positional Repeatability	+/-0.007 mm
Weld Cycle Rate	up to 120 welds/min
XY Working Envelope	14" x 14" (35.56cm)
Z Standard Maximum Part Height	from 0–7" (17.8cm)
Force Weight	1–14 lbf (4.5–62.3N)
Max Spring Compression Distance	1"(25zmm)
Distance from Gas Cone tip to top of work-piece	1/8" to 1/2" (preferred)



**CE** **CE TESTED AND CERTIFIED**  
Welder tested for electrostatic discharge immunity up to 2kV for CE compliance