

# The Sunstone™ SP Portable Welder

## SCOUT

### *When You Need a Fine Spot Weld for those Remote or Hard-to-get-to Places*

The Scout is a portable, capacitive discharge, fine spot welder with a 100 Ws punch. Whether you're working 300 feet off the ground on a wind turbine, dangling below a bridge, or hundreds of miles from the nearest power source, the Scout is a dependable source for a strong, reliable fine spot weld.

The Scout is built for portability. Capable of delivering 2,000 welds on one charge, and weighing in at less than 12 kg, the Scout will quickly become your go-to solution whenever and wherever you need a weld for those remote or hard-to-get-to places.

### TYPICAL APPLICATIONS

- Strain Gauges
- Cross-wire Welding
- Thermocouples
- Copper, Aluminum, Steel, and Brass Sheets or Wire

### FEATURES

- Secure the Scout to any Job Site with its Center Handle
- 2,000 Welds per Charge at 30 Ws; 650 at 100 Ws.
- 6 Hours of "On" Time per Charge
- 3-hour Recharge (to 95%)
- Convenient Storage Space for Cables and Handpieces
- 11.4 kg Weight for Easy Portability
- Up to 100 Ws of Power in One-tenth Ws Increments
- Digital Power Display
- Single-pulse Operation
- Audible Indicators for Successful Initiated Welds
- Thermal Protection Monitoring of Internal Power Supply
- 1 Year Warranty Backed by Sunstone's Reputation for Quality and Customer Service

Call or Text +1-801-658-0015 • [www.sunstonewelders.com](http://www.sunstonewelders.com)



*An on-the-go, fine spot welder. Perfect for cell towers, wind turbines, bridges, and other hard-to-get-to places!*



**sunstone**  
The Micro Welder Experts

## SPECIFICATIONS

### KEY UNIT SPECIFICATIONS

TABLETOP FOOTPRINT (L X W X H)	22.9x22.9x38.1 cm/9x9x15 inches
UNIT WEIGHT	11.4 kg/25 lbs.
INPUT VOLTAGE	100-240 VAC
FREQUENCY RANGE	50-60 Hz
INPUT AC CURRENT	0.7 A
OUTPUT	28.6 VDC, 1.04 A, 30 W MAX
WELDS PER CHARGE	2,000 at 30 Ws
RE-CHARGE TIME	6 HOURS FOR 100%, 3 HOURS FOR 95%
ENERGY (MIX-MAX)	.01 Ws - 100 Ws
PULSE WIDTH (MIN-MAX)	0.26ms - 5ms
PULSE HEIGHT MINIMUM	0.2 V

### WELD REPETITION RATES (WELDS/MINUTES AT % OF MAX ENERGY)

100%	75%	50%	25%	2.5%
40	50	60	85	120

### ENERGY RELEASE DATA

PULSE WIDTH DIAL MARKER	PULSE TIME IN ms	1.0mΩ OF ENERGY	1.5mΩ OF ENERGY	4.0mΩ OF ENERGY
1	0.26 ms	27%	20%	12%
1.5	0.28 ms	29%	22%	12%
2	0.45 ms	42%	33%	19%
2.5	0.59 ms	51%	40%	24%
3	0.75 ms	60%	48%	29%
3.5	0.90 ms	67%	55%	35%
4	1.06 ms	72%	60%	39%
4.5	1.43 ms	82%	71%	49%
5	2.23 ms	93%	86%	65%
5.5	3.54 ms	99%	95%	81%
6	4.80 ms	100%	98%	89%
6.5	5.51 ms	100%	99%	92%
7	5.54 ms	100%	99%	93%

### PEAK WELD CURRENT (AS A FUNCTION OF WELD ENERGY AND EXTERNAL WELDING LOAD)

ENERGY (Ws) CDSP 100	1.0mΩ LOAD (AMPS)	1.5mΩ LOAD (AMPS)	4.0mΩ LOAD (AMPS)
0.1 Ws	250	200	100
25 Ws	3953	3162	1581
50 Ws	5590	4472	2236
75 Ws	6847	5477	2739
100 Ws	7906	6325	3162



## RECOMMENDED HANDPIECES



PG1 Probe



PG2 Pistol Grip



PG5 Tweezer Pressure Activated

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MADE IN THE USA **EWI** STRATEGIC TECHNOLOGY PARTNER

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