

Orbital Welding System

M100 Power Supply

- Microprocessor controller with high-resolution 5.5 in. (140 mm) LCD
- Auto weld schedule program generation or manual entry
- Real-time monitoring and recording of weld output performance
- Weld data storage for QA/QC purposes:
 - to nonvolatile internal storage
 - to data memory card
 - to printer
 - to PC via serial port
- Multiple- or single-level capability
- Fractional/metric conversion
- Internal thermal printer
- Step programming capability
- Ramping between levels
- Pulse rates from 1 to 99 pulses per second
- Tacking capability
- Password protected
- Operator-limited access



Technical Data and Ordering Information

Select a basic ordering number and add a power cord designator.

Example: SWS-M100-1-1

Power		Basic Ordering Number	Duty Cycle			Welder Efficiency %	Idling to Rated Current, %	Dimensions, in. (mm)			Weight lb (kg)
Input	Output ^①		6.25 %	60 %	100 %			Height	Width	Depth	
115 V (ac) 1 phase, 50/60 Hz, 20 A	Direct current 2 to 100 A	SWS-M100-1-	100 A	32.3 A	25 A	44	6.4	9.0 (229)	15.5 (394)	19.4 (493)	42 (19)
230 V (ac) 1 phase, 50/60 Hz, 15 A		SWS-M100-2- ^②									45 (20.4)

① For 100 V (ac) input applications, the maximum output capabilities may be reduced.

② CCC compliant.

Geographic Region	Voltage	Plug Type	Cord/ Wire Type	Power Cord Designator
North America	110/120 V (ac) 50/60 Hz	NEMA 5-15	AWG/SJT	1
		NEMA 5-20	AWG/SJT	9
Japan/Taiwan	220/240 V (ac) 50/60 Hz	NEMA 6-15	AWG/SJT	2
		NEMA L6-20	Harmonized	4
United Kingdom	110/120 V (ac) 50/60 Hz	IEC-309	Harmonized	5
		BS 1363	Harmonized	6
Continental Europe/Korea	220/240 V (ac) 50/60 Hz	CEE 7/7	Harmonized	7
Australia/New Zealand/China	220/240 V (ac) 50/60 Hz	AS 3112	Harmonized	8

For more information, see the Swagelok *Electrical Power Cord/Plug Options* catalog, MS-02-79. For any power plug/service not listed, contact your authorized Swagelok sales and service representative.

Options and Accessories

Remote Pendant

The full-functioning pendant provides remote push-button operation of the power supply. The remote pendant comes with a 15 ft (4.6 m) cable.



Description	Ordering Number
Remote pendant	SWS-M-RPEND

Remote Pendant Extension Cable

The standard cable can be lengthened with a 10 ft (3 m) or 35 ft (10.7 m) extension cable.



Extension Cable ft (m)	Ordering Number
10 (3)	SWS-M-RPEND-10EXT
35 (10.7)	SWS-M-RPEND-35EXT

Data Memory Card

Data memory cards let users store and retrieve weld schedule programs and historical data right from the M100 power supply. Download data after shift changes for QA/QC analysis. One data memory card is included with the M100 power supply. Additional data memory cards can be ordered separately.



Description	Ordering Number
Data memory card	SWS-PCCARD-1MB

Printer Paper

One roll of paper is included with the M100 power supply. Additional packages of rolls can be ordered separately. Each package contains 10 rolls.



Description	Ordering Number
Printer paper	CWS-DRP-PAPER

PC Direct Interface Cable

With the PC direct interface cable, the user can download weld data directly to a PC via a serial port connection. One interface cable is included with the M100 power supply. Additional cables can be ordered separately.



Description	Ordering Number
PC direct interface cable	SWS-PC-CABLE

Power Cord

A 12 ft (3.7 m) power cord is included with the M100 power supply. To order a separate power cord, add a power cord designator from the table on page 1 to the basic ordering number.



Description	Basic Ordering Number
Power cord	CWS-CORD-

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Caution: Do not mix or interchange parts with those of other manufacturers.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.