

5.0 ELECTRICAL ENVIRONMENTAL SPECIFICATIONS AND STANDARDS

5.1 MPS 4000 POWER SOURCE

WARNING: THE INPUT POWER CONNECTOR, INPUT POWER CABLE AND FUSE PROTECTION MUST BE PROPER FOR THE INPUT VOLTAGE SELECTED

Input voltage: (multi voltage model)	200/230/400/460 VAC 3 phase 50/60 HZ.
Fuse Protection (slow-blow):	35A
Primary Continuous Power (100% Duty Cycle):	12.7 kVA
Cos phi:	0.99
Efficiency:	88%
Welding Current Range:	GMAW/FCAW 3 - 400A SMAW 10 - 400A GTAW 3 - 400A
Welding Current at:	10 min/40°C 40% duty cycle 400A 10 min/40°C 50% duty cycle 400A 10 min/40°C 60% duty cycle 365A 10 min/40°C 100% duty cycle 320A
Degree of Protection:	IP 23
Type of Cooling:	AF
Insulation Class:	F
Dimensions L x W x H mm:	625/290/475mm (25/12/19")
Weight:	35.2 kg (77.6 lb)
Applicable Electrical Standards:	IEC 974-1 (IP-23S) CSA EMC 89/336/EEC EN 60 974-1

5.2 MPS 4000R WATER CIRCULATOR (Note: Input Voltage Must Be Set)

Supply Voltage:	200/400/460 VAC; 1 Phase
Power Consumption:	0.6A
Cooling Capacity at Q = 1ℓ/min, +20°C:	2000W
Cooling Capacity at Q = max, +20°C:	2300W
Max. Delivery Capacity:	3.5 ℓ/min (0.9 Gallons/min)
Max. Pump Pressure:	4.2 bar (63 psi)

Pump Type:	Centrifugal Pump
Coolant Volume:	5.5l (1.45 Gallons)
Degree of Protection:	IP 23
Dimensions L x W x H mm:	625/290/475mm (25/12/9")
Weight (without coolant):	13.3 kg (29 lbs)

5.3 MPS 4000 WIRE FEEDER

Supply Voltage:	55 V DC
Rated Current:	4A
Wire Diameter:	0.8 - 1.6mm (0.03 - 0.625")
Wire Speed:	0.5 - 22m/min
Degree of Protection:	IP 23
Dimensions L x W x H mm:	650/285/410mm
Weight:	16 kg

5.4 MODEL 712 CONTROLLER

Supply Voltage and KVA Requirements:	230 VAC, 1-Phase, 50/60 Hz 0.3 KVA (Power by Interconnect cable From Water Circulator)
Applicable Electrical Standards:	IEC 974-1 (IP-23S) CSA EMC 89/336/EEC EN 60 974-1
Temperature Range:	-7°C to 43°C (20°F to 110°F)
Degree of Protection:	IP 23
Attention:	The remote Pendant is <u>not</u> rated to IP23 and care should be taken to protect it from direct contact with water. Only non-lethal voltages are used in the pendant, however.
Dimensions (L x W x H):	725/290/230mm (25/12/9")
Weight:	14 kg (31 lbs)