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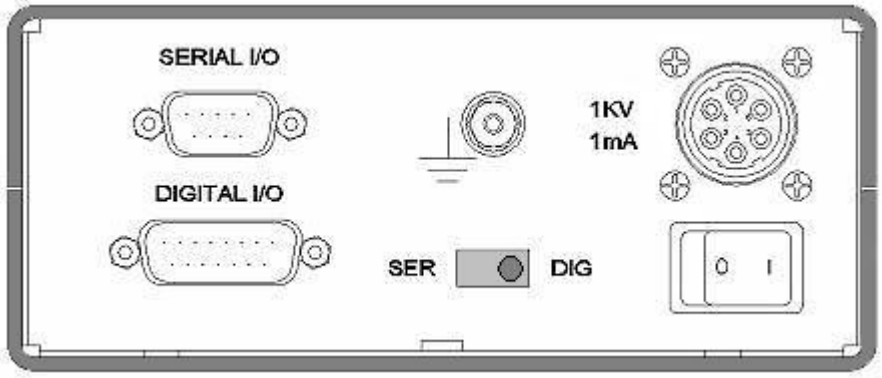
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Gripping Power, Inc.



EPS300 Front Panel

RS-232 Serial Interface. The RS-232 serial interface is a 9-pin, D-style, subminiature female connector, located on the front panel. All serial communications meet RS-232C requirements. The baud rate can be 9600 or 19,200 baud. Data length is 8 bits, no parity and one stop bit is required. Modem control lines, such as RTS and CTS, are not provided.

Pin	Description	Direction
2	Transmit Data	Output
3	Receive Data	Input
5	Common	

Digital/Analog Remote Interface. The digital and analog interface is a 15-pin, D-style subminiature male connector, located on the rear panel. The remote high voltage go on, analog monitors, digital outputs, and program select bits are contained in this connector.

Pin	Description	Direction
1	HV analog setpoint	Input (0-10 VDC)
2	Wafer sense digital output*	Output (500mA, source or sink)
3	Measured HV current output	Output (±10V scale = ±1000uA)
4	Digital return/common	Return for pins 5, 9, 13, 14 and 15
5	Wafer sense enable*	Input (12-24 VDC, opto isolated)
6	Wafer sense analog output*	Output (0-10V)
7	Auxiliary digital output 1	Output (500mA, source or sink)

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8	Auxiliary digital output 2	Output (500mA, source or sink)
9	HV go on	Input (12-24 VDC, opto isolated)
10	DC/signal common	Ground/power supply common
11	DC power input	Power (18-30 VDC)
12	Measured HV voltage output	Output (±10V scale = ±1000VDC)
13	Program select bit D0	Input (12-24 VDC, opto isolated)
14	Program select bit D1	Input (12-24 VDC, opto isolated)
15	Program select bit D2	Input (12-24 VDC, opto isolated)

Analog I/O (pins 3 and 12) is configured for 0-10 VDC bipolar operation. Consult
the factory for applications that require a 0-1 VDC, 0-5 VDC or unipolar interface.

Pins 4 and 10 are tied together internally. All digital I/O should be referenced to pin 10 and all analog I/O should be referenced to pin 4. An external common connection between pins 4 and 10 will not alter the performance of the EPS300.

* Wafer detection circuitry is optional and is not included in the basic EPS300.

Note: The above specifications are applicable to all EPS300 and EPS300LX power supplies manufactured after July 1, 2002.

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