



Magnetic Products, Inc.  
Highland, Michigan | mpimagnet.com

# ElectroPermanent Chuck Control



The ElectroPermanent power supply and control units are designed to magnetize and demagnetize all types of ElectroPermanent magnetic devices, depending on factory settings. MPI offers several control units, depending upon size and the number of chucks. In case of other magnetic device brands and models, consult MPI. EPCU control units are named by the number of output channels (i.e., number of electrical circuits to be energized in the magnetic clamping system): EPCU10: 1 channel, EPCU20: 2 channels, and EPCU40: 4 channels.

## Key Features:

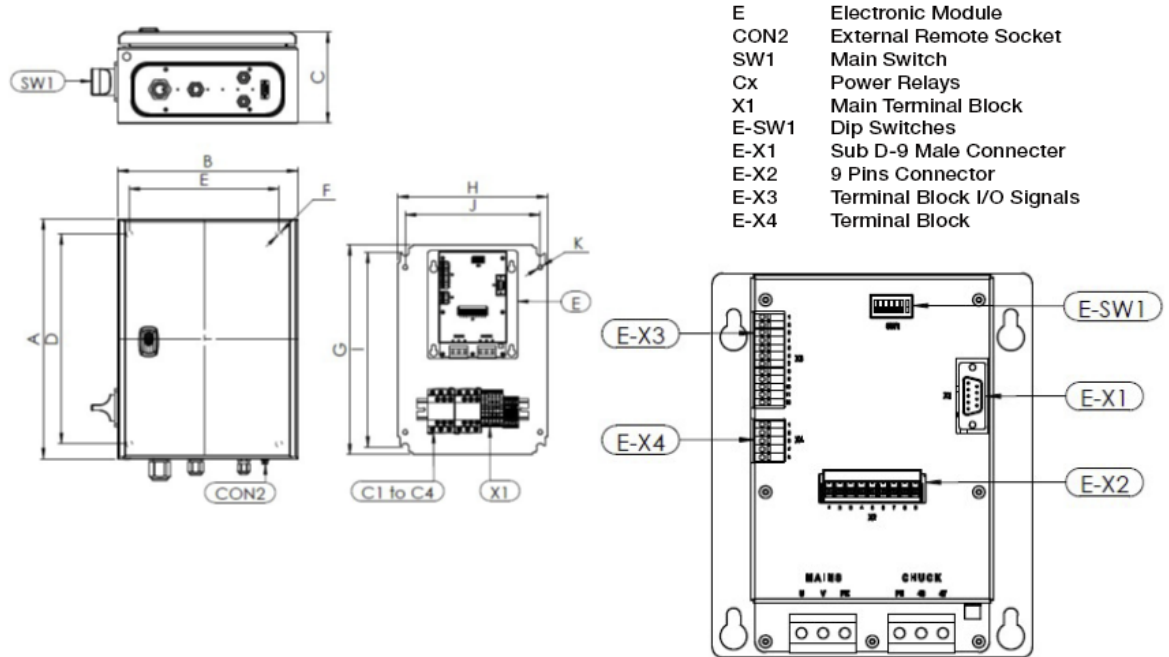
- EPCU control units come in two different versions:
  - SW for single wave rectified output voltage
  - DW for double-wave (full wave) rectified output voltage
- Operational safety – the machine cannot be started up at a low holding force
- Safe magnetization level setting
- Effective demagnetization of the chuck and the workpiece for easy removal
- Control of the chuck via remote controller available
- Control one or more magnets at the same time (depending on selected unit type)
- One (1) year warranty
- Models 10SW and 10DW use U19 Control style. All other models use RM control style.
- U19: No channel selection possible but it can be used with EP-CU20 and 40
- Mag and demag cycles will start for all channels
- RM : Channel selection possible

Model SW for Single-Wave Rectified Output Voltage											
Part Number	Description	Number of Chucks & Size (IN)	Main operating voltage (Vac)	Main operating frequency (Hz)	Operating temperature (F)	Max. relative humidity	Max. working altitude (FT)	Cabinet protection class	Required circuit breaker	Required power cable (*)	Number of output channels
EPCU-10SW	ElectroPermanent Chuck Control Remote Control (RC-EPC) included	1 chuck sizes to 16" x 32"	200-460	50/60	32-122	90%	3,280	IP66	32A-D	3 G 4	1
EPCU-20SW	ElectroPermanent Chuck Control Remote Control (RC-EPC) included	2 chuck sizes to 16" x 32"	200-460	50/60	32-122	90%	3,280	IP66	40A-D	3 G 6	4
EPCU-40SW	ElectroPermanent Chuck Control Remote Control (RC-EPC) included	4 chuck sizes to 16" x 32"	200-460	50/60	32-122	90%	3,280	IP66	40A-D	3 G 6	2
*Cable between electrical grid and control unit is not supplied. Make sure to follow required cable specifications.											
Model SW for Double-Wave (Full Wave) Rectified Output Voltage											
Part Number	Description	Number of Chucks & Size (IN)	Main operating voltage (Vac)	Main operating frequency (Hz)	Operating temperature (F)	Max. relative humidity	Max. working altitude (FT)	Cabinet protection class	Required circuit breaker	Required power cable (*)	Number of output channels
EPCU-10DW	ElectroPermanent Chuck Control Remote Control (RC-EPC) included	1 chuck sizes to 16" x 32"	200-460	50/60	32-122	90%	3,280	IP66	40A-D	3 G 6	1
EPCU-20DW	ElectroPermanent Chuck Control Remote Control (RC-EPC) included	2 chuck sizes to 16" x 32"	200-460	50/60	32-122	90%	3,280	IP66	40A-D	3 G 6	2
EPCU-40DW	ElectroPermanent Chuck Control Remote Control (RC-EPC) included	4 chuck sizes to 16" x 32"	200-460	50/60	32-122	90%	3,280	IP66	50A-D	3 G 10	4
*Cable between electrical grid and control unit is not supplied. Make sure to follow required cable specifications.											

Specifications subject to change • Items stocked F.O.B. Highland, MI • \*\*Cable between electrical grid and control unit is not supplied. Make sure to follow required cable specifications.



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Dimensions (Inches)											
	A	B	C	D	E	F	G	H	I	J	K
EPCU-10SW	12	10	6	9.8	7.9	0.4	9.8	7.9	8.9	6.9	0.4
EPCU-10DW	16	12	6	13.8	9.8	0.4	13.8	9.8	12.8	8.9	0.4
EPCU-20SW	16	16	8	13.8	13.8	0.4	13.8	13.8	12.8	12.8	0.4
EPCU-20DW	16	12	6	13.8	13.8	0.4	13.8	9.8	12.8	8.9	0.4
EPCU-40SW	16	16	8	13.8	13.8	0.4	13.8	13.8	12.8	12.8	0.4
EPCU-40DW	19.7	16	8	17.7	17.7	0.4	17.7	13.8	12.8	16.7	0.4