

## POWER SUPPLIES FOR CONTROLLERS



PSA18U-120



PSC30U-120



GS60A24-P1



PUP120-17

### Current requirements for stepper motor controller power supplies:

During operation, current consumption will vary depending upon how the controller is being used. Before shipment, our controllers are calibrated to the rated current of the motors they are to be used with. If you do not specify a motor, the controllers will be calibrated to a factory default value. Due to Pulse Width Modulation (PWM) our controllers usually consume less

current than the rated current of motors. However, to avoid problems during worst case scenarios, we recommend selecting a power supply with a max current not less than the rated current of motors that will be connected to the controller. In case of multi-axis controllers you will need to sum the current of all controllers connected to the power supply.

### Requirements for stepper motor controllers power supply voltage:

Our stepper motor controllers are a "chopper drive" type. This means that in the initial phase of the motor step our controller will apply significantly higher voltage to motor winding than will occur in other drive types. This method allows stepper motors to be driven with higher torque at higher

speeds. It should also be noted that stepper motor parasitic resonant effect behavior ("bad" frequencies position, for example) depends on supply voltage. Minimal allowable DC voltage of our stepper motor controllers is 12V and maximum is 36V, both of which we keep in stock.

### SPECIFICATIONS

Model	Voltage, V	Current, A	Dimensions, mm	Weight, kg	Connector	Price, EUR
PSA18U-120	12	1.5	98.5 × 55 × 31.5	0.2	2.1/5.5	33
PSC30U-120V	12	2.5	98.5 × 55 × 31.5	0.25	2.1/5.5	51
GS60A24-P1	24	2.5	125 × 50 × 31.5	0.31	KPPX-4P power connector	67
PUP120-17	36	3.34	167 × 65 × 37	0.64	KPPX-4P power connector	180

**Vacuum compatible products with stepper motors require voltage 24 – 36 V. Recommended power supplies are GS60A24-P1 and PUP120-17.**

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