



ESTAT ACTUATION

Compact motion starts—and stops—with us

Battery-Powered Voltage Driver

The ESTAT Battery-Powered Voltage Driver powers any ESTAT clutch product. It is easily operated while held in your hand, or while mounted to a clutch body.

The Battery-Powered Voltage Driver is programmed with three voltage outputs, generally correlating with low, medium, and high clutching force in ESTAT clutches. Toggle through the voltage settings by pressing the 'Set Voltage' button, with the voltage level indicated by the adjacent LEDs. Activate and deactivate the clutch with the 'Engage/Disengage' button. When the low battery light comes on, charge the Voltage Driver by connecting it to a USB Type-C charging port. The Battery-Powered Voltage Driver cannot be operated while charging.



Mechanical Specifications

Dimensions —mm (inch)	65.0 x 30.0 x 16.5 (2.56 x 1.18 x 0.65)
Weight—g (oz)	34.2 (1.21)
Enclosure Material	Black ABS Plastic
Charging Connector	USB Type-C
Clutch Output Connector	Molex Nano-Fit 2-Pos. Female (Part# 105313-1102)

Electrical Specifications

Output Voltage Accuracy	± 1.7%			
Transient Current Limit (Enabled by default)	~20 mA			
Nominal Battery Capacity	370 mAh			
Max Battery Charge Current	200 mA			
Charge Time	~2.25 h			
Control Input	Tactile Membrane Switch and Power Slide Switch			
	Voltage Setting:	Low	Medium	High
Output Voltage		250 V	300 V	400 V
Max Continuous Output Current		2.13 mA	1.62 mA	0.369 mA
Max Continuous Output Power		533 mW	486 mW	148 mW
Output Ripple Voltage (No Load)		0.824 Vp-p	0.920 Vp-p	1.160 Vp-p
Output Ripple Voltage (10 nF Load)		0.212 Vp-p	0.246 Vp-p	0.252 Vp-p
Engage Rise Time (10 nF Load)		592 μ S	708 μ S	2570 μ S
Disengage Fall time (10 nF Load)		366 μ S	438 μ S	572 μ S
Battery Life while Engaged		7.0 h	6.0 h	3.5 h

WARNING: mount the Voltage Driver using a light press fit, clamp or double-sided adhesive. DO NOT DRILL INTO THE VOLTAGE DRIVER. Please contact ESTAT with questions.