

ezePower™ - Hydraulic-Powered Generator

eze**power**
 power transformed




Turolla introduces ezePower™, a hydraulic-motor-powered electrical generator for use in mobile equipment applications. This compact generator produces a small amount of electric power in areas of a machine that are difficult or too costly to reach with wires.

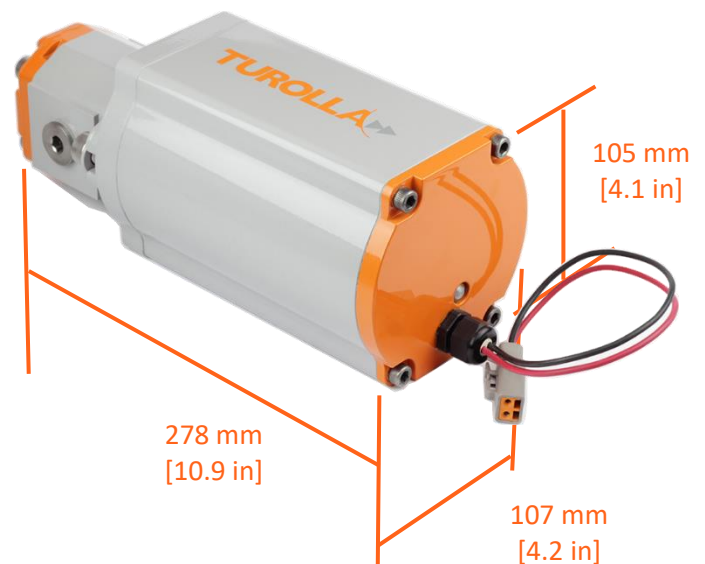
ezePower™ eliminates dependency on wires across troublesome areas such as electric swivels, repetitive bend joints and lengthy wire routing. Additionally, junction box service points and special routing features can be removed.

ezePower™ provides electric power to points on a machine where electrical isolation is required.

Whether building new or upgrading existing equipment, ezePower™ minimizes variation to the HMI control and work function enabling truly wireless communication.

System status is communicated by LED lights for easy troubleshooting.

-  Operation within specification
-  low voltage, high voltage, high temperature
-  current limit mode



 <7.5 kg [<16.5 lbs]

Features & Benefits

Using a small amount of hydraulic power, ezePower™ produces up to 150 watts at 12V or 300 watts at 24V, providing remote power for Plus+1 wireless CAN bridge communication, controllers, solenoid valves, LED lighting, vision systems, electric actuators and sensors used to improve safety, usability, reliability and autonomy of your machine. A battery can be added for peak load conditions based on the duty cycle or if power is needed without hydraulic flow.

With Turolla's high performing Group 1 gear motors in displacements as low as 2.6 cc, ezePower™ requires just 6.0 l/min and 36 bar [522 psi] to produce 150 watts. For higher load conditions a 28V option generates 300 watts with 7.8 l/min 40 bar [580 psi]. We offer larger displacement options for higher flow and lower pressure conditions.

Electrical					
Output voltage		14 vdc		28 vdc	
Peak Output Current		10.8 amps			
Surge and reserve capacity		Customer supplied battery if needed			
Lead acid battery compatible		Yes			
Reverse voltage protection		Yes			
Hydraulic					
Motor Displacement	Recommended Flow - l/min [gpm]		Maximum Flow (Valve regulated) l/min [gpm]	Delta Pressure at Peak Output Current – bar [psi]	
	14 vdc	28 vdc		14 vdc	28 vdc
2.6 cc	6.0 [1.6]	7.8 [2.0]	8.7 [2.3]	36 [522]	40 [580]
5.9 cc	13.5 [3.6]	17.7 [4.6]	19.7 [5.2]	14 [203]	16 [232]
12 cc	25.0 [6.6]	35.7 [9.4]	39.7 [10.5]	6 [87]	10[145]
Maximum valve inlet pressure (bar)		241 bar [3500 psi]			
Maximum back (outlet) pressure		Inlet pressure with case drain			
Case drain pressure		5 bar average, 7 bar peak			
Control valves		Restrictive Type Flow Regulator			
Oil temperature range		-20°C [-4°F] to +90°C [+194°F]			
Installation (easy hook-up)					
Clean side for mounting		Yes			
Mounting		4 – M8 x 1.25 tapped holes and 4 - 5/16" -8 UNC tapped holes			
Working ports		SAE ORB, 3/4-16UNF (-08) Inlet and Outlet			
Case drain port		SAE ORB, 7/16-20UNF (-04)			
Port location		Radial opposed			
Electrical connector		Deutsch DT06-2S on leads, pin 1 (+), pin 2 (GND)			
Dry weight		< 7.5 kg [16.5 lbs]			
Diagnostics					
Status / Fault Indicator LED		Under voltage, over voltage & high temperature = RED			
		Nominal voltage +/- 5% output = GREEN			
		Over current protection= AMBER			
Environment					
IP rating (dust/moisture)		IP67			
Continuous vibration		7.67 g RMS			
Maximum mechanical shock		bump = 40g, shock = 100g			
Audible noise		< 63 dBA at 1 meter		<68 dBA at 1 meter	
Salt spray resistant		Yes			
Hydraulic fluid / diesel fuel resistant		Yes			
Product life		10,000 hours at 80% of max power			
Ambient temperature		-40°C to 110°C RED LED indicator at +124°C [+255°F]			
Electrical Environment					
Radiated EMI		Meets regulatory standards			
Conducted EMI		Meets regulatory standards			
Electric field strength		200V/m at 50/60 Hz			
Electrostatic discharge		12kV Human Body Model / 400V Machine Model			