



ACL

Manufacturing

A Division of ClearRushCo.



Rush Power

Model: Rush Power 1000



The **ACL Rush Power 1000** is a unique and very reliable solution for converting waste gas into electrical power. This is done through the use of a Stirling Engine that has been proven extensively in Europe and has now made its way into the North American market. Black Gold Rush has found a way to utilize this reliable power source in a standalone unit that can provide a continuous 1000 watts to run SCADA systems, process control and measurement transmitters, and even lighting and security on remote well sites. This appliance can be paired up with the complete line of BGR combustors to provide a sensible and complete solution of fugitive and waste gas destruction regardless of the volume and can be placed within the confines of the well lease site. Its ability to provide electrical power using less fuel or waste gas than other solutions makes it a versatile and sensible choice to save money on carbon taxes as well.

Approvals

- CSA approved for Class I Div 2 location
- CSA B149.3-20
- C22.2 No 199-M89
- E60730-1-2013
- ANSI Z21.20-2014
- CAN/CSA C22.2 No. 60730-2-5-2014
- Compliant, meets NFPA standards

(See product specification sheet on reverse)

Front Panel



Back Panel



www.clearrushco.com

1-877-638-5234 (403) 638-5234

Clear Rush Co.
Box 1898, 5406 Township Road 325B
Sundre, AB T0M 1X0
Canada



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Features		
Electrical Output	Max Continuous Power Output	1000 W max
	Max Peak Power Output	5kW (200A fuse)
	DC Power at 25C for 1 hr / 30min / 10 min	3100W / 5000W / 5000W
	Voltage Output	24 VDC nominal (21.5 - 29VDC). 120VAC option available upon request
Fuel Characteristics	Type	Natural gas, LPG, propane, dry waste gas
	Gas Pressure	20 - 49mBar, 0.3 - 0.7 psi
	Rated Fuel Usage	Propane @100% Duty: @ 0.3 psi: <10 m ³ /d, @ 0.5psi: <11 m ³ /d
Performance and Operating Conditions	Overall Efficiency	10 - 12% without heat recapture. 30 - 50% with heat recapture
	Electrical Efficiency	Burner, fuel, and application dependent
	Microgen Stirling Engine Operating Life	Maintenance free: > 50,000 run hours
	Burner Emissions	Low NOx (fuel dependent)
	Engine Noise Level without casing	52.5 dBa at 1 meter (mounting dependent)
	Coolant Fan Noise Level	~79dBa at 1 meter
	AGM Lead acid batteries	> 1200 cycles @ 30% DOD, 25°C
	Nominal Battery Voltage	12VDC per battery. 24VDC nominal system output voltage
	Battery Capacity (per inverter/charger)	Up to 700Ah
	Installed Battery Capacity	110Ah @ 24VDC
	Inverter/Charger	Advanced battery management providing long battery life Can handle extreme loads for a short time
	System Ambient Operating Temperature	0 - 60°C
Other	Dimensions	31.0" W x 33.0" L x 57.0" H (787.4 x 838.2 x 1447.8mm)
	Weight	220 kg
	Safety Class	General area (Class 1 Division 2 available soon)
Standards	Safety	EN60335-1, EN60335-2, IEC62109-1, EN60730 Designed to meet CSA B149.3 requirements European Low Voltage Directive EEC 73/23
	Emissions / Immunity	EN55014-1, EN55014-2, EN61000-3-3 European Directive on Electromagnetic compatibility
	Approvals	Enefen, CAN/CSA-B149.3-15, CSA STD C22.1-15 UL, Field Approved - SPE1000

* Total system is modular so more engines and bigger or more batteries can increase the electrical output to fit customer.

** Custom built enclosures with different sizes can be constructed depending on required configuration.

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