

RYPGEN-1000

Downhole Turbine Alternator

The Ryptx **RYPGEN-1000** is a rugged **1000-watt** downhole turbine alternator. It is configured in a sonde-based chassis with key features to ensure reliable functionality in severe downhole applications. The **RYPGEN** does not have a sealed internal oil volume and therefore rotary mud-oil seals are not required. The core unit uses hard internal bearings and unique material selections to maximize power output, operating life and efficiency.



APPLICATIONS:

- Power for ESPs in artificial lift systems
- Power for chemical injection pumps
- Power for rotary steerable systems
- Power for M/LWD tools
- Power for comms / pulser systems
- Lithium battery replacement
- Geothermal applications

KEY FEATURES:

- Standard sonde architecture
- No internal oil volume
- No rotary seals
- Hard internal bearings
- Integral flow sleeve
- “Sealed for Life” Core Unit
- No custom fill tooling
- Simple R&M capability

⇒ **NO ROTARY SEALS**

⇒ **“SEALED FOR LIFE” CORE UNIT**

⇒ **NO OIL VOLUME**

RYPGEN 1000

Power	750 - 1000 W
Voltage Range DC	24 - 60 V
Comms	CAN Bus*
Mud Flow Rate	150 - 400 gpm
Max sand content	2%
Max Temp	175°C / 347F
Max Pressure	25000 psi
Tool Length	48"
Mechanical Connections	Stub Acme Threads**

* Please enquire about other communication protocols e.g. Qbus

** Upper & lower connections can be configured as required

CONTACT TO DISCUSS:

Mechanical and electrical interface options
 Customization to suit specific downhole requirements
 Compatibility and operation with third party downhole tools

UP TO 200W POWER? Contact Ryptx about the **RYPGEN -200**

UP TO 50W POWER? Contact Ryptx about the **RYPGEN -50**