

There is really only one choice for critical remote power...

Marathon Minotaur™ 2500

The Minotaur™ 2500 Electric Power System has been specifically designed for the Marathon engine to deliver high quality, reliable, unattended prime power. Long maintenance intervals of up to 4,000 hours and efficient fuel use translates into low operating costs that are particularly important for remote, often difficult to reach locations. The clean, low attention cabinet provides easy access for quick, efficient, and simple service. The use of widely available natural gas or LPG(propane) coupled with world wide power compatibility makes the Minotaur™ 2500 truly unique. Highly engineered components and electronics give a superior degree of reliability – providing the highest reliability of any small internal combustion engine based system available today.

Features

- Complete 1kW – 2.5kW solution
- Environmentally responsible – Runs on clean, efficient natural gas or propane
- Long service interval – typically 4,000 hours – once per year (replacing oil, oil filter and spark plug)
- Liquid cooled – true co-gen capable – total efficiency >90% (fuel to recovered energy)
- Data acquisition and transmission options for continuous monitoring
- Low Noise Level - <65 dB allows placement in village settings
- Economics of installation/operation over entire life is superior to other solutions



The Minotaur™ 2500 Electric Power System delivers high quality, reliable, unattended prime power.

Applications

- Cathodic protection
- Village power
- Remote residences
- Agriculture
- Telecommunications
- Remote medical facilities

Benefits

- Long-life prime power
- Low maintenance
- Superior Reliability
- High quality power at 120/240 VAC or 48 VDC
- Universal application



Remote Gasline Gate Valve Operation
– Turkey



Cathodic Protection On Natural Gas Line
– USA



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Specifications

Engine:	Engine life is typically 40,000 hours. Special long-life, low deposit oil with 11.4 litre (3.0 gal.) sump for 4,000+ hour change interval. Full pressure lubrication system Automatic shutdown for low oil pressure, high coolant temperature, overspeed; de-energized ignition shuts off fuel supply 12 VDC automotive gel-cell battery for 'black-start' capability
Electric	2.5 kW
Power:	120 VAC, 50/60 Hz or 48-100 VDC Bearingless, brushless, direct drive +/- 3% voltage, .2% frequency (ac unit) < 5% THD (ac unit) 1.8 v peak-to-peak max. ripple (dc unit)
Noise / EMI:	Metal isolation compartment eliminates EMI / RFI
Safety:	Short and open-circuit protection, lightning surge suppression
Fuel:	Natural gas 800-1,200 BTU/scf Consumption – 44 scf/hr at full load LPG(Propane) 2520 BTU/scf Consumption – 0.5 gal./hr at full load
Enclosure:	Rugged 3/16" aluminum structure with 1/8" aluminum skin. Fully coated inside and out, top coat of polyurethane enamel Locking panels, louvers and screens on all openings Weather, insect, and vandal resistant.
Weight:	Operational approx. 238 kg (525 lbs.)
Size:	Length = 104 cm (41"), Width = 104 cm (41") Height = 89 cm (38")
Noise:	Maximum 65 dB @ 7 meters
Environment:	7-43° C @ 3,000 meters, 100% relative humidity 20 – 110° F @ 10,000 ft., 100% relative humidity

Options

Data acquisition and transmission via cell phone or
Satellite phone link.

Handle kit for carrying, placement, and installation

Why Marathon?

The Marathon Minotaur™ 2500 provides a lower-cost, reliable solution to remote power needs. No comparable small engine exists that can equal the long life and low maintenance of the Marathon engine.

When the engine is matched with a variable speed, brushless, bearingless alternator, the combination permits running at a desirable low rpm rather than at the synchronous 3,600 rpm typical of small-engine generators. Here, rpm can be selected to fit the load requirement of each particular application.

A long-lived, reliable engine generator is available in both AC or DC versions to better match customer needs and eliminate power conditioning equipment. Because the Marathon Minotaur™ 2500 is made using production components, its price per kilowatt is significantly lower than that of the competition.

The Marathon Minotaur™ 2500 is very quiet and is weather resistant. With ample power available for most applications, other non-primary power needs at a site can be readily satisfied. Digital, microprocessor control gives flexibility to the system, not only enhancing the available cellular communication feature, but allowing accommodation to site-unique features.

The Marathon Minotaur™ 2500

