

The iBall Regulated Power Supply

Designed to Harness Oil & Gas Rig AC Power



Industrial Grade Components

- **Voltage Control within 2%**
- **Load Protected**
- **Input Voltage 90 to 264 Volts AC**
- **Tolerates 50 to 65Hz Input Frequency**
- **Output Frequency within 1%**
- **Proprietary Reset Circuitry**
- **Backboard Mounted; Ready to Install**
- **1-Year Warranty**

This power supply protects computers, gas detection and chromatograph systems from erratic power fluctuations

Proven in over two years of continuous use in mud logging trailers in the Texas, Kansas and Oklahoma.

Unlike traditional UPS units purchased at computer stores, this system converts wildly fluctuating AC Voltage from drilling rig generators to a precise DC Voltage with complete current control.

The DC output supplies the industrial inverter with a fixed 13.5 Volt input and charges a customer supplied external battery simultaneously.

There are no switching relays as the industrial class inverter runs 24/7.

A **proprietary circuit** manufactured by iBall Instruments is installed internally in the inverter to monitor the input voltage and protect the inverter from potentially damaging low-voltage conditions resulting from rig power failure longer than 30 minutes or more. When the power is restored, this circuitry monitors the state of the battery and resets the inverter when the battery is sufficiently charged.

This automatic reset function eliminates the need for manual intervention as is required on most all inverters of this size.



The Regulated Power Supply is available from:

Myron Butler
iBall Instruments® LLC
Sales & Service
405-341-2434

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Regulated Power Supply Specifications

AC to DC Switching Power Supply Section

ITEM	NOMINAL	RANGE	DETAIL/NOTES
Input Voltage	110/220 VAC	90 – 264 VAC Universal Input	Universal AC Input / Full Range AC Input Active Surge Current Limiting Built-in Active PFC function – PF>0.95
Output Voltage	13.5 VDC	•	
Minimum Current	0 Amps	0 - 5%	
Maximum Current	67 Amps	•	
Power	904.5 Watts	•	
Protection	•	•	Short Circuit/Overload/Over Voltage/Over Temperature
Current Limiting	•	•	Built-in Constant Current Limiting Circuit
Current Sharing	•	Up to 2,000 Watts	Built-in Active parallel function

Inverter Section

ITEM	NOMINAL	RANGE	DETAIL/NOTES
DC Input Voltage	13.5 VDC	10 to 15 VDC	
Output Voltage	110 VAC	110 VAC	New exclusive NEPT design prevents excessive spikes from damaging your equipment
Maximum Continuous Power	2,500 Watts	•	
	20.8 Amps		
Surge Power	5,000 Watts	•	
Output Waveform	•	•	Modified Sine Wave with Phase Correction
Output Frequency	60Hz	+/- 1 Hz	
No-Load Current	<0.6 Amps	•	
Full Load efficiency	90%	•	
1/3 rd Load efficiency	95%	•	
Full Load Max Operating Temperature	131° +/-5° F 55° +/-20.5 C	•	
No Load Min Operating Temperature	5° F -15° C	•	Unit should be powered down if no load applied
Protection	•	•	Short Circuit/Overload/Over Voltage/Over Temperature
Current Limiting	•	•	Built-in Constant Current Limiting Circuit
Current Sharing	•	Up to 2,500 Watts	Built-in Active parallel function

Safety Disconnect Switch

ITEM	NOMINAL	RANGE	DETAIL/NOTES
Maximum Current	175 Amps	6 to 36 VDC	Provides a safe disconnect when rig power is shut down

PHYSICAL	Dimensions: 20.01" x 17.45" x 5.75" (50.8 x 44.3 x 14.6 cm), Weight: 28 lbs (12.7kg)
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