

Overview

UPS uninterruptible power supply

Input voltage	220V $\pm$ 10%
Input frequency	35~65Hz
Output voltage	220V $\pm$ 2%
Output frequency	50 $\pm$ 1Hz
Power-on time	$\geq$ 15min

Instrument room safety indicators

the insulation resistance between the phase line and the machine room grounding conductor is greater than 2M, and the instrument must be equipped with a good grounding device

• Gas analyzer

Natural gas hydrocarbon component analyzer

Analysis cycle	30, 90s (user-defined analysis of cycle time)
Test component	C1 nC5
Minimum detection concentration	total hydrocarbon 1×10^{-6} , hydrocarbon component 1×10^{-6}
Measuring range	total hydrocarbon 1×10^{-6} ~ 1, hydrocarbon component 1×10^{-6} ~ 1
Methylethane separation degree	$\geq$ 0.85, obvious separation under the condition of 1% methane mixture (C1/C2 300:1)
Noise	$\leq$ 0.5% F.S/h
Baseline stability	$\leq$ 1% F.S/h
Repeatability error	$\leq$ 2.5% F.S

Natural gas non-hydrocarbon component analyzer

Measurement content	CO ₂
Minimum detection concentration	CO ₂ 0.1%
Measurement range	CO ₂ 0.1% ~ 100%
Baseline drift	1%/7d of full scale

Repeatability error	± 5
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• Sensor

Sensor

Pump stroke sensor/rotary table speed sensor range: 0-1920 strokes/minute

Rotary table torque sensor	range: 0~6MPa
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Riser pressure sensor range: 0~42MPa

Casing pressure sensor	range: 0~68MPa
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Hook hanging load sensor range: 0~6MPa

Drilling fluid temperature sensor	range: 0~125
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Drilling fluid density sensor range: 0~3g/cm

Drilling fluid conductivity sensor	range: 0~50ms/cm, 0~300ms/cm
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Drilling fluid outlet flow sensor range: 0~100% (relative flow)

Drilling fluid pool volume sensor	range: 0~5m
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Drawworks sensor range: 0~9999, hook position setting: 0~50m

Hydrogen sulfide sensor	range: 0 100ppm, response time: T80 30s
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• Geological instrument

Carbonate analyzer

Measurement range 0~100 carbonate

Accuracy	1
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Mudstone density tester

Measurement range 1~3g/cm³

Minimum sample weight	0.05g
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Resolution 0.01g/cm³

Fluorescence meter

Power supply 220VAC 50Hz

Power 40W

Thermal vacuum distillation degasser

Power supply 220VAC 50Hz

Heating power 300W

System vacuum $\leq 1.3\text{KPa}$

System tightness after the vacuum degree reaches 1.3KPa, visually check the vacuum gauge for a drop of no more than 0.26KPa within 2 hours after the gas valve is cut o

Mud bottle volume 250ml

• Electric degasser

Electric degasser

Working voltage three-phase380VAC

Powe 370W

Speed 1400rpm

Explosion-proof grade ExdIIBT4

• Software system

Software system

windows operating system

Chinese, English, Russian, and Spanish versions

Metric and English system and custom units conversion

Rich background application software