Overview

UPS uninterruptible power supply	
Input voltage	220V ± 10%
Input frequency	35~65Hz
Output voltage	220V ± 2%
Output frequency	50 ± 1Hz
Power-on time	≥ 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	≥ 0.85, obvious separation under the condition of 1% methane mixture (C1/C2 300:1)
Noise	≤ 0.5% F.S/h
Baseline stability	≤ 1% F.S/h
Repeatability error	≤ 2.5% F.S

Natural gas non-hydrocarbon component analyzer	
Measurement content	CO2
Minimum detection concentration	CO2 0.1%
Measurement range	CO2 0.1% 100%
Baseline drift	1%/7d of full scale

Repeatability error	± 5

- **Sensor**

Sensor	
Pump stroke sensor/rotary table speed sensor	range: 0-1920 strokes/minute
Rotary table torque sensor	range: 0~6MPa
Riser pressure sensor	range: 0~42MPa
Casing pressure sensor	range: 0~68MPa
Hook hanging load sensor	range: 0~6MPa
Drilling fluid temperature sensor	range: 0~125
Drilling fluid density sensor	range: 0~3g/cm
Drilling fluid conductivity sensor	range: 0~50ms/cm, 0~300ms/cm
Drilling fluid outlet flow sensor	range: 0~100% (relative flow)
Drilling fluid pool volume sensor	range: 0~5m
Drawworks sensor	range: 0~9999, hook position setting: 0~50m
Hydrogen sulfide sensor	range: 0 100ppm, response time: T80 30s

- **Geological instrument**

Carbonate analyzer	
Measurement range	0~100 carbonate
Accuracy	1

Mudstone density tester	
Measurement range	1~3g/cm^3
Minimum sample weight	0.05g
Resolution	0.01g/cm^3

Fluorescence meter	
Power supply	220VAC 50Hz
Power	40W

Thermal vacuum distillation degasser	
Power supply	220VAC 50Hz
Heating power	300W
System vacuum	≤ 1.3KPa
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