

## Technical parameters of 2000KW Perkins diesel generator set

### Technical parameters of generator set:

Unit model: XHY-2000GF/P	Steady state voltage regulation rate (%) : $\leq \pm 1$
Output power: 2000KW	Voltage fluctuation rate (%) : $\leq \pm 0.5$
Power factor: $\text{COS}\Phi=0.8$	Transient voltage regulation rate (%) : $+20 \sim -15$
Output voltage: 400V/230V	Voltage stabilization time (s) : $\leq 1$
Output current: 3600A	Steady state frequency adjustment rate (%) : $\leq \pm 1$
Rated frequency: 50Hz	Frequency fluctuation rate (%) : $\leq \pm 0.5$
Rated speed: 1500rpm	Transient frequency adjustment rate (%) : $+10 \sim -7$
Fuel grade: 0# Light diesel	Frequency stabilization time (S) : $\leq 3$
Overall dimension: 6000×2200×2700 (L×W×H mm)	Fuel consumption (100%load) : 208g/kW·h
Unit weight: 13500kg	Noise (LP7m) : 108dB (A)

### Technical parameters of diesel engine:

Brand / origin: Perkins	Cooling mode: Closed water circulation cooling
Diesel engine model: 4016-61TRG3	Oil supply mode: Direct injection
Diesel engine power: 1975KW/2173KW	Control mode: Electronic speed control
Number of cylinders / lifting structure: 16/V	Air inlet mode: Turbocharged & Intercooled
Bore stroke: 160×190mm	Overload capacity: 100%
Oil capacity: 475L	Displacement: 61.12L
Coolant liquid capacity: : 806L	Oil consumption rate: $\cong 0.25\%$
Start mode: DC24V Electric start	Speed: 1500rpm

### Technical parameters of generator:

Brand / origin: Xinhongyuan (Stanford Technology)	Insulation grade: H
Motor model: HYF-2000	Degree of protection: IP23
Rated power: 2000kw	Wiring mode: Three phase four wire, Y-type connection
Rated voltage: 400V/230V	Regulation mode: AVR (Automatic voltage regulator)
Output frequency: 50Hz	Output factor: $\text{COS}\Phi=0.8$
Rated speed: 1500rpm	Temperature rise: H(125 °C)
Altitude: $\leq 1000\text{m}$	Ambient Temperatures: $\leq 40^\circ\text{C}$

### The standard configuration of generator set is as follows:

Brand new water cooled engine (diesel);
Brand brushless alternators H class;
Suitable for environment: 40 °C - 50 °C radiator water tank, belt driven cooling fan, fan safety shield;
Genset controller, battery floating charger;
Heavy duty steel base-frame and vibration-damper;
Industrial Silencers and exhaust elbow;
Dry air filter, fuel filter, lubricating oil filter, starting motor and self charging generator;
Original technical documents of diesel engine and generator, instructions of , Operation & Maintenance manual etc.