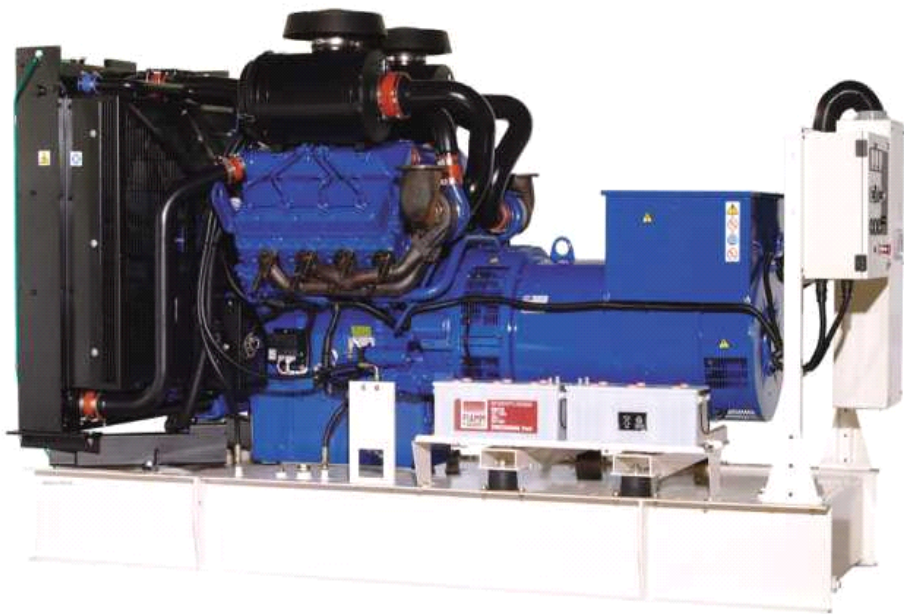




<http://www.ycgenset.com>

GENSET MODEL: YP364G TECHNICAL DATA SHEET



ISO14001:2004



ISO9001:2000

YICHEONG POWER GENERATOR

YP364G

STANDARD SPECIFICATION

Genset Main Technical Data

3P, 50Hz@1500RPM, 400/230V

(380/220V and 415/240V are for optional)

Genset Model: YP364G
Engine Model: 2506C-E15TAG1

Rated power:

320 KW 400KVA

Standby power:

360 KW 450 KVA

Benefits:

- ※ Function stability credibility, service convenient.
- ※ Low operating cost results in optimal economy.
- ※ Gets the job done wherever you are.
- ※ Easy for installation, operation and maintenance.

ASSEMBLY

- ※ The engine and alternator are close coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur. Engine with radiator and alternator are on common spraying powder mounting.
- ※ Anti-vibration pads are affixed between engine alternator feet and the base frame. Thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.
- ※ For drability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by special three layers painting which provides an excellent corrosion resistant surface.

CONTROL SYSTEM AND PROTECTION

- ※ Controllers are available for all applications. It contains Deep Sea, ComAp or other famous brands. According to their different functions, the control systems can be specified into key start controller model, automatic start control model and PCRC three remote control systems. See controller features inside.

WARRANTY

- ※ YICHEONG Company provides one-source responsibility for the generator set and accessories. Each YICHEONG generating set has been got through 2 hours Load test for running 0%, 25%, 50%, 75%, 100% and 110% load, all protective devices and control function are simulated and checked before despatch.
- ※ Engine and Alternator are guaranteed for a period of 12 months from the date of commissioning or 18 months from shipping, whichever occurs first.
- ※ Convenience for operation and maintenance, backed by Perkins global service network.

CRITERION

- ※ ISO8528, GB/T2820, ISO3046, BS4999, BS5514, BS500
- ※ EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ※ ISO9001:2000, ISO14001:2004, SGS, TLC

General Features:

- Composed of Perkins strong powerful diesel engine and Leroy Somer or Marathon alternator.
- 24V DC start motor and storage battery.
- Brushless, Self-excited, IP23, H insulation.
- Engine cooling system: water-cooled.
- Key start panel control system as standard, digital auto-start panel is optional.
- Canopy: Super silent, Normal silent, trailer.
- Optional open type or super silent type, ATS and synchronizing/paralleling system.
- Steel base frame with Anti-Vibration mounting, base fuel tank with flexible rubber fuel lube and level indicator.
- Overall sprayed powder coating.
- All generating sets are gone through rigorous testing before being released to the market place, including 50%, 75%, 100%, 110% load and all protection function (over-speed stop, high water temperature, low oil pressure, battery charging failure, emergency stop).

YP364G

ENGINE SPECIFICATION

Engine model **2506C-E15TAG1**

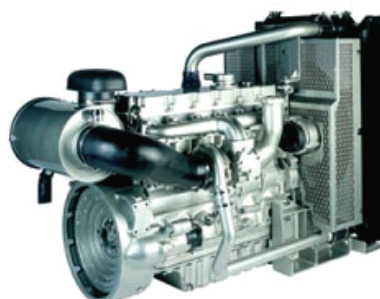
UK Perkins Benefits

Power to Meet your needs: Hitting the key power nodes, provide a clean & cost effective power solution.

State of Art Design: Common-rail fuel system, high power density, low exhaust emissions with the minimum of heat rejection and excellent fuel economy.

World-class Product Support: Network of 4000 distributors and service outlets, easy specify & order part online guides and service tools.

Long-term Power Solution: Designed to fully comply with EU Stage II emissions regulations, providing an emissions compliant power solution for the future.



 Perkins®

ENGINE BASIC DATA

NO. of Sylinder & type	6 in line
Air intake way	Turbocharged,Air to Air
Bore*Stroke(mm)	137*171
Cubic Capacity (L)	15
BMPE(kpa)	2197
Compression ratio	16:01
Rated speed(RPM)	1500
Rated power	396KW /495KVA
Gross power	435KW/543KVA
Piston speed(m/s)	8
Engine Coolant flow(L/s)	5.7
Air intake flow(L/s)	33
Exhaust flow(L/s)	85
Exhaust temperature (°C)	N/A
Overall thermal efficiency	39.9%

LUBRICANTION SYSTEM

Minimum sump capacity(L)	45
Maximum sump capacity(L)	53
Total system oil capacity(L)	62
Normal oil temperature °C	114
Oil pressure at rated speed (kPa)	420

INDUCTION AIR SYSTEM

Max. air intake restriction (paper element filter)	
Clean filter (kPa)	3.7
Dirty filter (kPa)	6.2

EXHAUST SYSTEM

Max.back of pressure (kPa)	6.8
Diameter of exhaust pipe (mm)	150

FUEL SYSTEM

Type of Injection	MEUI
Injection pressure	200MPa
Fuel atomiser	MEUI
Feed pump operation pressure	550kPa
Tolerance on fuel consumption	N/A
Maximum suction head	3m
Maximum pressure head	4m
Governor type of pump	Electrical

CONSUMPTION

110% (L/h)	400kw/500kva	109
100% (L/h)	360kw/400kva	99
75% (L/h)	270kw/337.5kva	73
50% (L/h)	180kw/225kva	51
25% (L/h)	90kw/113kva	24.7

COOLING SYSTEM

Coolant capacity (L)	58
Max. top tank temperature	107
Thermostat operation range (°C)	88-98

ELECTRIC SYSTEM

Alternator	22SI
Starter	42MT

YP364G

ALTERNATOR SPECIFICATION

Reliable performance

Voltage regulation

Voltage regulation maintained with in $\pm 0.5\%$ as follow:

- Power factor between 0.8-1.0 lagging.
- From no load to full load, any steady load.
- Speed droop variation under 5%.

Frequency/Speed undulation

- 0-100% load, Frequency/Speed Droop Ratio $< 5\%$.
- 25-100% load, any steady load undulation $< 0.25\%$.

Effect factor of telecom

- TIF(MAMG1-22) < 50 ; THF(BS EN60034) $< 2\%$

Brand	LEROY SOMER	STAMFORD	<p>Alternators meet the requirement of BSEN 60034 and the relevant section of other international standards such as BS5000, VDE0530, NEMA MG1-32, IEC34, CSA22.2-100, As1359, and other standards & certifications can be considered on request.</p> <p>The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.</p> <p>Brushless alternator with pilot exciter for excellent load response.</p> <p>Class H insulation, easy parallelling with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents.</p> <p>Backed by worldwide service network.</p>
Alternator Model	LSA47.2 S5	HCI 544C	
Frequency and Speed	50Hz/1500rpm	50Hz/1500rpm	
Voltage(V)	400/230	400/230	
Prime Capacity(KVA)	455	500	
Prime Power(KW)	364	400	
Power Efficiency(%)	93.8	93.8	
Input Power(KW)	388	426	
Voltage Regulation	$\pm 0.5\%$	$\pm 0.5\%$	
Voltage regulator	AVR	AVR	
Rated Power Factor	0.8	0.8	
Stator Winding	2/3	2/3	
Maximum Overspeed	2250min ⁻¹	2250min ⁻¹	
Sustained Short Circuit	300%(3IN): 10S	2050	
Cooling Air(m ³ /s)	0.9	N/A	

DIMENSION AND WEIGHT

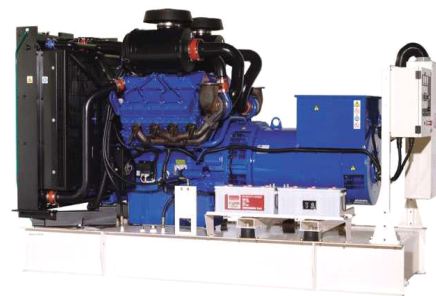
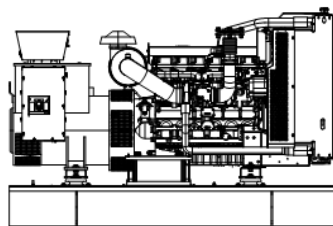
Open frame type

Size (L*W*H, mm)

3935 × 1150 × 2080

Gross weight:

3583kg



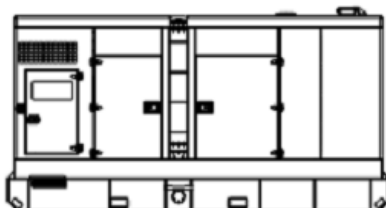
Super silent canopy

Over size (L*W*H, mm)

5225 × 1385 × 2285

Gross weight:

5310kg



1.Standard: DSE702K Key Start

Providing the standard functions as follows:

(Also can be made according to the customers' special requirements)

- ※ Start/Stop controller
- ※ Ampere meter
- ※ Voltmeter and selector switch
- ※ Frequency meter/Water temperature gauge/Oil pressure gauge/
Hour counter/Battery voltage meter
- ※ Emergency stop pushbutton
- ※ Alarm System: Over speed, High Engine Temperature, Low Oil Pressure, Charge Failure.
- ※ Protection System: Over speed, High Engine Temperature, Low Oil Pressure, Emergency Stop. And the other protection function presetting.



DSE702K

2.Option:Deep Sea DSE5210 Digital Auto Start

**3.Option:Deep Sea DES5220 Digital Auto Start (AMF)
(Option assembled with the ATS)**

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power.(AMF)



DSE5210



DSE5220

Functions:

- ※ Automatic Start/Stop
- ※ 3 start attempts failure and Automatic Crank Disconnect
- ※ Parameters display(V/A/Hz/Hour)
- ※ Engine monitoring and protection
- ※ Charge alternator exciting and Charge alternator fail alarm
- ※ Running hour counting
- ※ Settings can be adjustable via key buttons on front panel

Shutdown:

- ※ Loss of Speed Signal
- ※ Alternator Under/Over Voltage
- ※ Alternator Under/Over Frequency
- ※ Mains Under/Over Voltage
- ※ Mains Under/Over Frequency
- ※ Under/Over Speed
- ※ Low Oil Pressure
- ※ High Engine Temperature

Warning:

- ※ Alternator Under/Over Voltage
- ※ Alternator Under/Over Frequency
- ※ Mains Under/Over Voltage
- ※ Mains Under/Over Frequency
- ※ Under/Over Speed
- ※ Low Oil Pressure Pre-Alarm
- ※ High Engine Temp. Pre-Alarm
- ※ High/Low Battery Voltage
- ※ Over-current
- ※ Periodic maintenance

YP364G

Optional Parts:

Engine	Alternator	Generator Set	Fuel System	Canony
<ul style="list-style-type: none"> ● Heater 2KW&4KW (Coolant & Lube Oil) ● Battery Charger 3.5A & 7A 	<ul style="list-style-type: none"> ● AVR PMG with regulator ● Anti-damp and anti-corrosion treatment ● Anti-condensation heater 	<ul style="list-style-type: none"> ● Tools with the machine 	<ul style="list-style-type: none"> ● Low fuel level alarm ● Automatic fuel feeding system 	<ul style="list-style-type: none"> ● Super silent (65-68Db@7m) ● Normal silent (75-78Db@7m)
Lubricating System	Exhaust Gas System	Cooling System	Control Panel	Output Voltage
<ul style="list-style-type: none"> ● Oil with the machine 	<ul style="list-style-type: none"> ● Protection board from hotness ● Low frequency silencer 	<ul style="list-style-type: none"> ● Front heat protection ● 50°C radiator ● Coolant(-30°C) 	<ul style="list-style-type: none"> ● Remote controller ● Auto-paralleling control panel ● Auto Transfer /changeover Switch (ATS) 	<ul style="list-style-type: none"> ● 440/254V ● 416/240V ● 220/127V ● 208/120V



Circuit Breaker



Paralleling/synchronizing System



ATS



Super silent canopy

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