

100KVA PERKINS DIESEL GENERATOR UP100GFS

Standby Power(50HZ)	88KW/110KVA
Prime Power(50HZ)	80KW/100KVA

Standard Features

Supply scope

- Engine(Perkins 1104C-44TAG2)
- Air filter, fuel filter, oil filter
- 24V starter and charge alternator
- Radiator, fans are driven by belt, with safety guard
- Brushless alternator (274C)
- Base frame with 8hrs fuel tank
- Absorbers installed
- Silent canopy
- Main line circuit breaker/ATS
- Standard control panel
- Batteries and connecting wire, float charger
- Ripple flex exhaust pipe, bellows, flange, muffler.
- User manual, Test report, etc



Generator Ratings

Voltage	HZ	Phase	P.F	Standby/Prime Amps	Standby Rating (KW/KVA)	Prime Ratings (KW/KVA)
400/230V	50	3	0.8	158.4/144	88/110	80/100

Prime power (PRP): Prime power is available for an unlimited number of annual hours in available load application, in accordance with GB/T2820-97(eqvISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby power Rating (ESP) : The standby power rating is application for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

We provide a full line of brand new and high quality products. Each and every unit is strictly on load test before delivery. Warranty is according to our standard conditions: 12 months or 1500 running hour's, subject to the earlier one. Service and parts are available from our factory or distribution in your location.

ENGINE DATA

Manufacturer /Model	Perkins /1104C-44TAG2
Air intake System	Turbocharged, air to air charge cooler

Cylinder Arrangement	4 in LINE
Bore and Stroke	105*127 (MM)
Compression Ratio	18.2:1
Rated RPM	1500rpm
Displacement	4.41L
Prime power at rated RPM	93.6KW
Max standby Power at Rated RPM	103KW
Governor Type	Electronic
Frequency Regulation ,Steady State	<±0.5%
Total lubrication system capacity	8.0 litres
Total coolant capacity	12.6 litres
Fuel consumption at 100% load	205g/kw.h [19.2L/h]
Fuel consumption at 75% load	207g/kw.h [14.5L/h]
Fuel consumption at 50% load	204g/kw.h [9.5L/h]

ALTERNATOR SPECIFICATION

General data

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

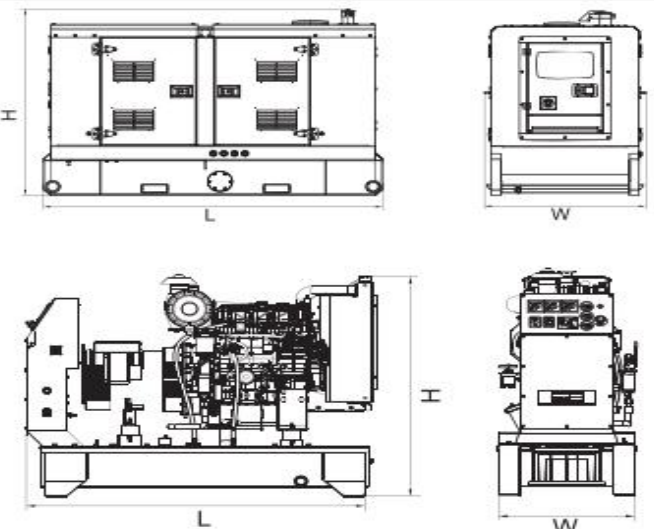
Alternator Data

Manufacture /Type	274C
Number of Phase	three
Connecting Type	3 Phase and 4 wire
Frequency	50HZ
Number of Bearing	one
Power Factor	0.8
Protection Grade	IP23
Altitude	≤1000m
Exciter Type	Brush less, self-exciting
Insulation Class, Temperature Rise	H/H
Alternator Capacity	100KVA

GENERATING SET DATA

Voltage Regulation	≥±5%
Voltage Regulation, Stead State	≤±1%
Sudden Voltage Warp (100% Sudden Reduce)	≤+25%
Sudden Voltage Warp (sudden Increase)	≤-20%
Voltage Stable Time (100% sudden Reduce)	≤6s
Voltage Stable Time (Sudden Increase)	≤6s
Frequency Reduce	≤5% adjustable
Frequency Regulation, Stead State	≤1.5%
Frequency waving	≤0.8 %
Sudden Frequency Warp (100% Sudden Reduce)	≤+12%
Sudden Frequency Warp (Sudden Increase)	≤-10%
Frequency Recovery Time (100% sudden Reduce)	≤5s
Frequency Recovery Time (Sudden Increase)	≤5s

Dimension & Weight

	<p>Open-frame Type:</p> <p>Overall Size: 2240*950*1320 (mm)</p> <p>Weight: 1030 kgs</p> <p>Silent Type:</p> <p>Overall Size: 2900*1050*1800 (mm)</p> <p>Weight: 1500 kgs</p>
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Options

Type	Fuel System	Control System
<ul style="list-style-type: none"> ● Rainproof Type ● Soundproof Type ● Trailer Type 	<ul style="list-style-type: none"> ● Daily Fuel Tank ● Base Fuel Tank 	<ul style="list-style-type: none"> ● Auto Control Panel ● Remote Control Panel ● Auto Transfer Switch (ATS)

Basic Control Panel




Standard Control Panel is the basic configuration for normal operation and usage. It is of some advantage such as easy to operate various function and well protection. Operative buttons such as Turn On, Per-heart. Starting, Stop (Emergency Stop) on the panel .while malfunction occurs, control panel will stop the generator and also alarm with light or buzz.

Auto Control Panel with Smartgen HGM6120 controller

 	<p>Automatic Control Panel is the basic configuration for nobody on duty controlling generator. HGM6120 controller, integrating digital, intelligent and network techniques, is used for automatic control and monitoring system of genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and three "remote" (remote control, remote measure and remote communication). The controller uses LCD display, optional display interface including Chinese, English, Spanish, Russian, Portuguese, Turkey, Polish and French with easy and reliable operation.</p> <p>Alarms:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Over and Under Speed <input checked="" type="checkbox"/> Low and High Battery Volt. <input checked="" type="checkbox"/> Start and Stop Failure <input checked="" type="checkbox"/> Charge fail <input checked="" type="checkbox"/> Over Current <input checked="" type="checkbox"/> Under / Over Generator Voltage <input checked="" type="checkbox"/> Low Oil Pressure <input checked="" type="checkbox"/> Emergency stop <input checked="" type="checkbox"/> High engine temperature <p>Metering via LED display:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Generator Volts(L-L / L-N) /Power(KW) /Current (A) / Frequency (HZ) / Speed(RPM) <input checked="" type="checkbox"/> Mains voltage (V) / Frequency (HZ) /Current (A) <input checked="" type="checkbox"/> Engine oil pressure (Kpa-PSI-Bar) <input checked="" type="checkbox"/> Generator Cos (σ) <input checked="" type="checkbox"/> Engine temperature ($^{\circ}\text{C}$ & $^{\circ}\text{F}$) <input checked="" type="checkbox"/> Battery volts <input checked="" type="checkbox"/> Engine hours run <input checked="" type="checkbox"/> Generator cumulate electric energy(kwh)
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Silent canopy feature

	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Silent / weatherproof steel enclosure treated with polyester powder coated . <input checked="" type="checkbox"/> Large residential muffler for silent operation. <input checked="" type="checkbox"/> Black-finish stainless steel locks and hinges for maximum weather protection. <input checked="" type="checkbox"/> Integrated steel base tank. <input checked="" type="checkbox"/> Control panel viewing window including security access doors. <input checked="" type="checkbox"/> Large access doors for easy maintenance,operation and repairs. <input checked="" type="checkbox"/> Emergency stop push button mounted on enclosure exterior
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