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# IPG45 GENSET

Generating Set Powered By  Perkins 

## Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	36KWe / 45KVA	40KWe / 50KVA
1800rpm, 60 Hz / 440V	42KWe / 53KVA	47KWe / 59KVA

## Genset Specifications

Engine Make & Model	Perkins 103A-33TG1		
Origin	UK		
Alternator Type	LSA43.2S25-UCI224D		
Control Panel	DIGITAL DEAP SEA		
Circuit Breaker Type	3 Pole MCB		
Water Cooling System			
Mechanical Governor			
Electrical Stop Solenoid, Energized to Run			
Compact Size			
Fuel System	50%	75%	100%
1500rpm, 50 Hz	5.83	8.23	10.8
1800rpm, 60Hz	7.1	9.9	12.9

\*Prime Power (l/hr)

## Engine Technical Data

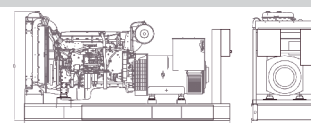
No. of Cylinders / Alignment	3 In Line
Cycle	4 Stroke
Aspiration	turbocharged
Injection	Direct
Bore, mm	105
Stroke, mm	127
Displacement, l	3.3
Compression Ratio	17.25:1
Starting	12V Electric
Alternators, Amps	12V / 65A

## Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	SX460
Protection	IP23
Temperature Rise, °C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

## Dimensions & Weights

Length(m)	Width(m)	Height(m)	Weight(kg)	Tank Capacity(L)
1.85	0.75	1.3	810	95



## RATING GUIDELINES

**PRIME POWER** rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for governing purpose is available for this rating.

**MAXIMUM STANDBY POWER** rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating. **1 hp = 1 kW x 1.36**

# IPG45 GENSET

Generating Set Powered By  Perkins **STAMFORD**

**LEROY  
SOMER**

Performances	1500rpm	1800rpm
Alternator Efficiency	88.2%	88.4%
<b>Engine Power</b>		
Prime Power, KWm(hp)	41.3(55.4)	48.9(65.6)
Standby Power, KWm(hp)	45.6(61.2)	53.9(72.3)
<b>Alternator</b>		
Prime Power, KWe	40	50

## Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR
- Oil pressure, low oil level, high oil temperature
- DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure
- Low coolant level - Configurable inputs & outputs
- Upgradable for GSM network connection, Signal SMS messages.

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	0.150% of fuel consumption	
Oil Sump Capacity, l	7.8	
Oil System Capacity Include Filters, l	8.3	

## Optional Equipment

- **Engine**
  - Coolant heater
  - Oversize batteries
  - Extra fuel pre-filter water separator
  - Battery Disconnect Switch
  - Electrical Governor
- **Alternator**
  - Excitation Boost System (EBS)
  - Upgrade to 3 phase sensing AVR
  - Qadrature droop kit
  - Anti-condensation heater
  - Air inlet filters
- **General**
  - Upgrade to modular controller for paralleling
  - Upgrade to 4 pole circuit breaker
  - Battery charger
  - Automatic transfer switch
  - Fuel level switch High / Low for alarm and control
  - Fuel transfer pump Automatic / Manual
  - Residential grade silencer
  - Weather protective and acoustic enclosure.

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	8	9
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	30	34
Radiator Cooling Air Flow, m <sup>3</sup> /min (cfm)	74.4(2627)	97.8(3454)
Coolant Capacity, l	10.2	

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m <sup>3</sup> /min(cfm)	3.1(109.4)	3.9(137.7)
Heat Rejection Exhaust at Standby Power, KW	35	43
Exhaust Gas Temperature at Standby °C	537	551
Max Allowable Back Pressure in Exhaust Line, Kpa	10	15.0
Exhaust Gas Flow at Standby Power, m <sup>3</sup> /min(cfm)	7.7(247)	9.5(335.4)

## Spare Parts Kit (Optional)      Genuine - Perkins

Oil filter, full flow	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Alternator belt set	(1)

## Accessories

Oil Drain	Anti-Vibration Pads
Stainless Steel Flexible	Fuel Tank Base Frame for 8hrs
Standard Silencer	

## General Information

### Documentation

Engine instruction book-English  
Alternator manual- English  
Wiring diagram

### Warranty

One year or 1000 thousand hours whichever elapsed first against all defects in material / or workmanship, subject to the terms and conditions of the Manufacturer's warranty.