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IPG300 GENSET

Generating Set Powered By  Perkins 

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz/ 400V	240KWe / 250KVA	264KWe / 330KVA
1800rpm, 60 Hz / 440V	282KWe/352KVA	309KWe/386KVA

Genset Specifications

Engine Make & Model	Perkins 1506A-88TAG5		
Origin	USA		
Alternator Type	HC1444D		
Control Panel	DIGITAL DEAP SEA		
Circuit Breaker Type	3 Pole MCCB		
Water Cooling System			
Mechanical Governor			
Electrical Stop Solenoid, Energized to Run			
Compact Size			
Fuel System	50%	75%	100%
1500rpm, 50 Hz	33	48.2	65
1800rpm, 60Hz	39	56.8	77

*Prime Power (L/hr)

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. A 10% 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**

Engine Technical Data

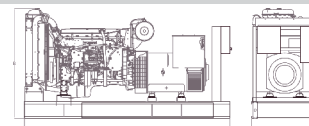
No. of Cylinders / Alignment	6 In Line
Cycle	4 Stroke
Aspiration	turbocharged
Injection	Direct
Bore, mm	112
Stroke, mm	149
Displacement, l	8.8
Compression Ratio	16.1:1
Starting	24V Electric
Alternators, Amps	24V/45A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440
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)
3.0	1.0	1.85	2150	310



IPG300 GENSET

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LEROY
SOMER

Performances	1500rpm	1800rpm
Alternator Efficiency	93%	93%
Engine Power		
Prime Power, KWm(hp)	267(358)	300(402)
Standby Power, KWm(hp)	293(393)	333(446)
Alternator		
Prime Power, KWe	240	288

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	-	-
Oil Sump Capacity, l	36	
Oil System Capacity Include Filters, l	41	

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	8	8
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	125	138
m ³ /min (cfm)	370(13066)	482(17022)
Coolant Capacity, l	33.2	

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m ³ /min(cfm)	18(646)	23.6(833)
Heat Rejection Exhaust at Standby Power, KW	125	138
Exhaust Gas Temperature at Standby °C	574	512
Max Allowable Back Pressure in Exhaust Line, Kpa	10	10

Exhaust Gas Flow at Standby Power, m ³ /min(cfm)	50(1767)	59.6(2105)
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Accessories	
Oil Drain	Anti-Vibration Pads
Stainless Steel Flexible	Fuel Tank Base Frame for 8hrs
Standard Silencer	Battery disconnecter switch

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.

Optional Equipment

- **Engine**
 - Coolant heater
 - Oversize batteries
 - Extra fuel pre-filter water separator
 - Battery Disconnecter Switch
 - Electrical Governor
- **Alternator**
 - permanent magnet generator (PMG)
 - Upgrade to 3 phase sensing AVR
 - Quadrature 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.

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)
Fuel pre-filter	(1)
water separator	

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.