

**JPG 45P**

Output Power Rating			Prime		Standby***	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	45	36	49.6	39.7
1800	60 Hz	480	53.1	42.5	58.7	46.9

**Switch able speed 1500/1800 rpm**

The above kW rating are at 0.8 pf

Guaranteed within condition equivalent to those specification in ISO 8528-1, ISO 3046-1 and BS 5514-1.

\* Prime power rating of the generating set is where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hours period.

Nothing that a 10% overload is available for 1 hour in every 12 hours operation

\*\* Standby power rating of the generating set is where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted

**Engine Technical Data**

Engine Make and Model	Perkins 1103A-33TG1
Cylinder	3 Vertical In-Line
Aspiration	Naturally Aspirated
Combustion System	Direct Injection
Displacement	3.3 Liters
Governor	Mechanical (Optional Electronic)
Emissions Regulation	TA Luft
Electrical Starting System	12 Volt Starter Motor and 12 Volt 65 Amp Alternator DC Output

**Air System**

Air Filter Type	Dry Element (Replaceable)	
Combustion Air Flow Cm/min(cfm)	Prime	50 Hz
	Standby	60 Hz
	2.9 (102.4)	3.7 (130.6)
	3.1 (109.4)	3.9 (137.7)
Max Air Filter Intake Restriction	8.0 kpa	8.0 kpa

**Fuel System**

Fuel Filter Type	Ecoplus (Replaceable)	
Recommended Fuel	Class A2 Diesel	
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm
	Standby	1800 rpm
	Prime Power	12.0 (3.17)
	75% of Prime Power	14.3 (3.78)
	50% of Prime Power	10.7 (2.83)
	8.20 (2.17)	9.90 (2.62)
	5.70 (1.51)	7.10 (1.88)
Fuel Tank: Open / Close	180 L / 167 L	

**Lubrication System**

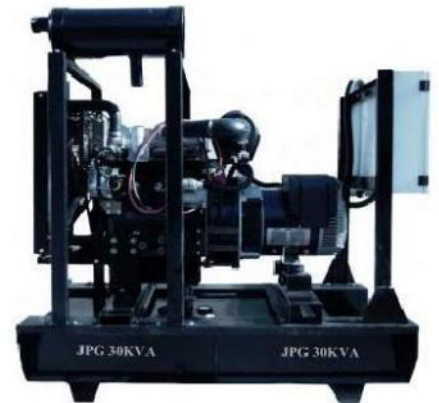
Lube Oil	API-CG4 / CH4 SAE 15W40 (-10°C to 50°C Ambient Temperature)	
Lube Oil Capacity	8.3 L	
Oil Pan	7.8 L	
Oil Filter Type	Spin-On (Replaceable)	
Oil Cooling Method	Water	

**Cooling System**

Coolant Capacity	10.2 L	
Cooling System	Mounted Radiator, Water Cooled	
Cooling Fan Air Flow m3/min (cfm)	53.0 (1871.6)	70.0 (2472.0)
Heat Radiation to Room	Prime	50 Hz
	Standby	60 Hz
	7.0 kW	8.0 kW
	8.0 kW	9.0 kW

**Exhaust system**

Silencer	Grade	Industrial	
	Size	2.5"	
	QTY	1	
Exhaust gas flow m3/min (cfm)	Prime	7.0 (247.2)	8.8 (310.7)
	Standby	7.7 (271.9)	9.5 (335.4)
Max Allowable Backpressure	10 kpa	15 kpa	
Exhaust Gas Max Temperature	Prime	50 Hz	60 Hz
	Standby	492°C	510°C
		537°C	551°C





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# Jimen Power General Trading L.L.C

## JPG 45P

Alternator Technical Data		Standford / or L.S							
Model Number	UC1224D								
No. of Poles	4								
Number of terminals (leads)	12								
A.V.R & Excitation	SX 460								
Regulation	± 1%								
Ingress Protection	IP:21								
Insulation Class	H								
TIF	<45								
THD at Full Load %	3.8 / 3.6								
THD at No Load %	3.3 / 3.2								
Cooling Air flow-@50 Hz m <sup>3</sup> / min (cfm)	11.8 (416.71)								
Cooling Air flow-@60 Hz m <sup>3</sup> / min (cfm)	14.5 (512.06)								
Output Voltage	50 Hz				60 Hz				
V	380	400	415	440	415	440	460	480	
kVA	50	50	50	40	58	60	60	60	
kW	40	40	40	32	46.4	48	48	48	
Alternator performance data									
Reactance (f.l.c.l.f)	xd %	271.5	245	227.6	162	316.8	291.6	266.8	245
	xd' %	14.96	13.5	12.54	8.93	17.46	16.07	14.7	13.5
	xd'' %	8.2	7.4	6.87	4.89	9.57	8.81	8.06	7.4
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)	105	130	155	-	90	110	130	155	
Controller features		DSE							
Controller Make and Model	Auto mains failure (AMF) applications including remote communication, user configuration and complete gen-set monitoring and protection. Ready for generators with 3 ph 4 wire / 3ph 3 wire/ Mono ph								
Engine Protection	* Oil Pressure * Coolant Temperature				* Fuel Level (Optional)				
Generator Protection	* Over / Under Voltage * Over / Under Frequency * Phases Frequency				* Over Current * Charging Alternator Fault				
Inputs and Outputs	* 3 No's Configurable Analog Inputs * 4 No's Binary Inputs				* 6 No's Binary Outputs * D+ Pre-Excitation Terminal				
Event and Performance Log	* Gen-set text Alarm Log * For More Features we can use High Controller				* Engine Hours History Log				
Gen-set Enclosure specification (optional)									
Enclosure Type	Acoustic and Weatherproof								
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet								
Access Doors	6								
Drainage	Fuel and Water Drainage Provision								
Transportation	Tested Single Point Lifting Facility & Forklift Pockets								
Noise Level (@ Free-Field Conditions)	69 dBA @ 7 meter								
Water Fill	Radiator Water Filling Provision								
Cable Access	Cable Inlet and Outlet Provision								
Emergency stop	External Emergency Push Button								
Canopy RAL Color	RAL 2000								
Chassis RAL Color	RAL 9011								
Shipping Data									
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)					
Open	1950	775	1175	850					
Enclosed	2260	1110	1500	1350					



### Notes:

All Generators carry a one year or (1,000) hour's manufacturer's warranty

In line with our policy of continuous, JIMEN reserves the right to change specification without notice.

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