



JPG 650P

| Output Power Rating | | | Prime | | Standby | |
|---------------------|-----------|---------|-------|-----|---------|-----|
| rpm | Frequency | Voltage | Kva | Kw | Kva | Kw |
| 1500 | 50 Hz | 400 | 650 | 520 | 681 | 545 |
| 1800 | 60 Hz | 480 | 700 | 560 | 750 | 600 |

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 2806A-E18TAG2/2806A-E18TAG3 |
| Cylinder | 6 vertical in line |
| Aspiration | turbocharged and air to air charge cooled |
| Combustion System | Direct injection |
| Displacement | 18.1 liters |
| Governor | electronic |
| Emissions Regulation | non-compliant |
| Electrical starting system | 24 volt starter motor and 24 volt 70 amp alternator with DC output |

Air System

| | | |
|---------------------------------|-----------------------------|--------------|
| Air Filter Type | Paper Element (Replaceable) | |
| Combustion Air flow Cm/min(cfm) | 50 Hz | 60 Hz |
| | prime | 43 (1518.53) |
| | standby | 45 (1589.16) |

Fuel System

| | | | |
|----------------------------------|-------------------|------------|------------|
| Fuel filter type | Class A2 Diesel | | |
| Fuel Consumption l/hr(US gal/hr) | Engine speed | 1500 | 1800 |
| | standby | 134(35.4) | 141 (37.2) |
| | prime power | 123 (32.5) | 127 (33.5) |
| | 75%of prime power | 90 (23.8) | 95 (25.1) |
| | 50%of prime power | 61 (16.1) | 66 (17.4) |
| Fuel tank capacity: open/close | 1250 L/1150 L | | |

Lubrication System

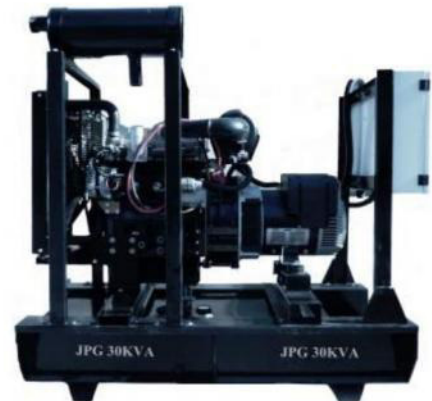
| | | |
|--------------------|---|--|
| Lube oil | API-CG4 or APEA ES , SAE 15 w-40(10 °c to 50 °c ambient temperature | |
| Lube oil capacity | 62 L | |
| Oil pan | 53 L | |
| Oil filter type | full -flow Eco plus (replaceable) | |
| Oil cooling method | water | |

Cooling System

| | | |
|-----------------------------------|--------------------------------|-------|
| Coolant capacity | 61 L | |
| Cooling system | Mounted radiator, water cooled | |
| Cooling fan air flow m3/min (cfm) | 702 | 852 |
| Heat radiation to room | 50 Hz | 60 Hz |
| | Prime | 40 kw |
| | standby | 44 kw |

Exhaust system

| | | | |
|-------------------------------------|---------|---------------|---------------|
| Silencer | Girade | Industrial | |
| | Size | 8" | |
| | QTY | 1 | |
| Exhaust gas flow m3/min (cfm) | Prime | 96 (3390.20) | 109 (3849.29) |
| | standby | 104 (3672.72) | 118 (4167.13) |
| Max allowable backpressure | 6.9 kpa | | 6.9 kpa |
| Exhaust gas max Temp prime, standby | 50 Hz | 60 Hz | |
| | 568 °c | 481 °c | |
| | 571 °c | 489 °c | |





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Jimen Power General Trading L.L.C

JPG 650P

| Alternator Technical Data | | Stamford / or L.S | | | |
|-------------------------------------|--------------|-------------------|-------|-----------------|--|
| Model Number | LSA 47.2 L9 | | | | |
| No of Poles | 4 | | | | |
| Number of terminals (leads) | 12 | | | | |
| A.V.R & Excitation | R230 | | | | |
| Regulation | ± 0.5 % | | | | |
| Ingress protection | IP-23 | | | | |
| Insulation class | H | | | | |
| Total harmonic TGH/THC | <2 % | | | | |
| TIF | <50 | | | | |
| Cooling Air flow-@50 Hzm3/min (fcm) | 54 (1906.99) | | | | |
| Cooling Air flow-@60 Hzm3/min (fcm) | 66 (2330.76) | | | | |
| Output Voltage | 50 Hz | | 60 Hz | | |
| V | 380 | 400 | 415 | 380 416 440 480 | |
| KVA | | 600 | | 602 661 685 750 | |
| KW | | 480 | | 482 529 548 600 | |

| Alternator performance data | | | | |
|---|--------|--------|--|--------|
| Reactance (f.l.c.l.f) | xd % | 330 | | 344 |
| | xd' % | 16.5 | | 17.2 |
| | xd'' % | 11.4 | | 11.8 |
| Motor starting capacity based on 30% voltage dip and 0.8 pf (KVA) | | 1198.8 | | 1398.6 |

| 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/3 ph 3 wire/ mono ph | | |
| Engine Protection | oil pressure | fuel level optional | |
| | coolant temperature | coolant level optional | |
| Generator Protection | over/under voltage | over under frequency | over current |
| | over/under frequency | | phases sequence |
| Inputs and outputs | 3 No's configuration analog inputs | | 6 No's binary outputs |
| | 4 No's binary inputs | | charging alternator fault |
| Event and performance log | Gen-set text alarm log | | Engine hours history log |
| | for more features we can use higher controller | | |

| Gen-set Enclosure specification (optional) | |
|--|--|
| Enclosure type | Acoustic and Weather proof |
| Anticorrosive protection | polyester powered coated galvanized sheet |
| Access Doors | 6 |
| Drainage | fuel and water drainage provision |
| Transportation | tested double point lifting facility and forklift pokets |
| Noise Level @ free field condition | 77 dBA @ 7 meter |
| water fill | radiator water filing 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 (mm) |
| Open | 3800 | 1600 | 2300 | 4840 |
| Enclosed | 5700 | 1900 | 2360 | 6340 |



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