

| Output Power Rating | | Prime | | | Standby | |
|---------------------|-----------|---------|-----|-----|---------|-----|
| rpm | Frequency | Voltage | Kva | Kw | Kva | Kw |
| 1500 | 50 Hz | 400 | 600 | 480 | 660 | 528 |
| 1800 | 60 Hz | 480 | 625 | 500 | 687 | 550 |

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-E18TAG1A | | |
| Cylinder | 6 vertical in line | | |
| Aspiration | turbocharged and A/A charge cooled | | |
| Combustion System | direct injection | | |
| Displacement | 18.1 L | | |
| Governor | Electronic | | |
| Emissions Regulation | TA Luft (1986) | | |
| 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) prime standby | 50 Hz | 60 Hz |
| | 34 (1200.69) | 43 (1518.53) |
| | 36 (1271.32) | 45 (1589.16) |
| Max air filter intake restriction | 6.4 kpa | 6.4 kpa |

Fuel System

| | | | |
|-------------------------------------|--------------------|------------|------------|
| Fuel filter type | Class A2 Diesel | | |
| Fuel Consumption 1/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) |

Lubrication System

| | |
|--------------------|-----------------------------------|
| Lube oil | API CH4 (15w/40) |
| Lube oil capacity | 62 liters |
| Oil filter type | full -flow Eco plus (replaceable) |
| Oil cooling method | water |

Cooling System

| | | |
|--|--------------|-------|
| Coolant capacity | 61 L | |
| Cooling system | water-cooled | |
| Cooling fan air flow m3/min (cfm) | 702 | 852 |
| Heat radiation to room Prime standby | 50 Hz | 60 Hz |
| | 38 kw | 40 kw |
| | 42 kw | 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 tem Prime Standby | 50 Hz | 60 Hz | |
| | 568`c | 481 `c | |
| | 571 `c | 489 `c | |

Alternator Technical Stamford / or L.S

| | | | | | | | | | |
|----------------------------------|--------------|-----|-----|---|-----|-------|-----|-----|--|
| Model Number | LSA 47.2L9 | | | | | | | | |
| 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 (f | 54 (1906.99) | | | | | | | | |
| Cooling Air flow-@60 Hzm3/min (f | 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 | | | | | | 1398.8 |

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 | | | | | fuel level (optional) | | | |
| | coolant temperature | | | | | coolant level (optional) | | | |
| Generator Protection | over/under voltage | | | over current | | | over/under frequency | | |
| | charging alternator fault | | | | | | phases sequence | | |
| Inputs and outputs | 3 No's configurable analog inputs | | | | | | 6 No's binary outputs | | |
| | 4 No's binary inputs | | | | | | D+pre-excitation terminal | | |
| 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 powder coated galvanized sheet | | | | | | | | |
| Access Doors | 6 | | | | | | | | |
| Drainage | fuel and water drainage provision | | | | | | | | |
| Transportation | tested double point lifting facility and forklift pockets | | | | | | | | |
| 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 | 3800 | 1600 | 2300 | 4760 |
| Enclosed | 5700 | 1900 | 2360 | 6260 |

Notes:

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