

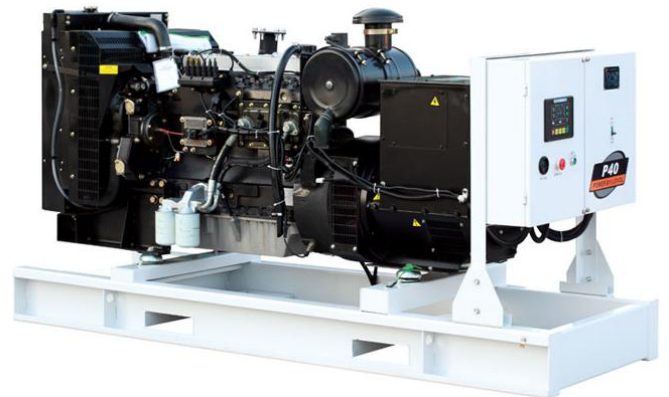
YANAN DIESEL GENERATOR Powered by LOVOL Model: YNS180P



*Drawing above for illustration purposes only

I . GENERAL DATA

| | | | |
|---------------------|--------|----------------|------|
| Prime Power | kW/kVA | 130 | 163 |
| Standby Power | kW/kVA | 143 | 180 |
| Frequency | Hz/rpm | 50 | 1500 |
| Voltage | V | 400 | 230 |
| Current | A | 235 | |
| Connection | / | 3P 4W / Y | |
| Rated Power Factor | / | 0.8 | |
| Open Type (L×W×H) | mm | 2550x1000x1620 | |
| Open Type(Weight) | kg | 1670 | |
| Silent Type (L×W×H) | mm | 3000x1200x1800 | |
| Silent Type(Weight) | kg | 2200 | |



■ Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

■ All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53inHg), air temperature 25°C (77°F), relative humidity 30%.

■ Please contact with YANAN engineer for correct generator capacity selection when the load application can't meet with the standard reference.

■ YANAN diesel generators comply with standards: ISO8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, IEC34-1

II . STANDARD CONFIGURATION

| | |
|--------------------------|---|
| Engine | LOVOL, including air filters, fuel filters, oil filter, starting motor and charging alternator etc. |
| Alternator | YNNAN brushless AC alternator |
| Radiator | 50℃, fan protective shroud |
| Base frame | ≤550KW: base mounted fuel tank, anti-vibration pads, battery holder |
| | >550KW: channel steel base frame, anti-vibration pads, battery holder |
| Circuit Breaker | ≤1250A : Molded case circuit breaker(MCCB) |
| Control System | DEEP SEA 6120 |
| Start Battery | Dry charged battery , available for 6 times starts under standard condition; connection cables. |
| Installation Accessories | Bellow, Elbow and flange, Exhaust silencer, etc. |
| Tool | YANAN standard |
| Documents | Electric drawing, operation & maintenance manual, certification etc. |

III . OPTIONAL CONFIGURATION

| | |
|----------------------------|---|
| Engine Accessories | ◇Heavy-duty air filter ◇Coolant heater ◇Lub oil heater ◇Fuel and Water Separator |
| Alternator And Accessories | ◇Stamford ◇Leroy Somer ◇Marathon ◇Anti condensation heater ◇PMG |
| | ◇High voltage _____kV |
| Cooling System | ◇50℃ radiator ◇Heat exchanger + water cooling tower + External water circulation pumping system |
| | ◇Remote horizontal water tank system |
| Control System | ◇AMF ◇Parallel ◇Practical type in low temperature environment ◇Control Screen Heater |
| | ◇Other (Comap、DEIF) |
| Circuit Breaker | ◇3/4 poles ◇Fixed/handcart type ◇Electric mechanism |
| Automatic Transfer Swtich | ◇ATS cabinet |
| Start Battery | ◇Nickel-cadmium battery ◇Maintenance-free battery ◇Power charger and selector |
| | ◇Charging current meter |
| External Fuel Tank | ◇500L ◇1000L ◇1500L ◇2000L ◇2500L ◇3000L ◇4000L ◇5000L |
| Others | _____ |

IV. ENGINE DATA

| | | | | |
|------------------|---------------------------------------|-------------------|---------|-----|
| Engine Model | 1106C-P6TAG3 | Engine power | 164 | kW |
| Aspiration | Turbocharged air-to-air charge cooled | Displacement | 5.98 | L |
| Type | In-line | Bore×Stroke | 100×127 | mm |
| No. of Cylinders | 6 | Compression Ratio | 17.5:1 | |
| Governor Type | Electronic Governor | Rated Speed | 1500 | RPM |

■ Fuel System

| | | | | | |
|------------------------------|---|-----|--------------------------------|--------------|-----|
| Prime Power Fuel Consumption | 36.3 | L/h | Standby Power Fuel Consumption | 40.2 | L/h |
| Fuel specification: | Sumer: GB 252-2000 top ASTM D975 No.2-D or BS2869 1998 Class A1, A2 | | Injection System | In-line Pump | |

■ Lubrication System

| | | | | | |
|------------------|----------------|---|-----------------|------|----|
| Lub Oil Capacity | 18.3 | L | | | |
| Lub # | API CF-4 15W40 | | Max.Temperature | ≤126 | °C |

■ Coolant System

| | | | | | |
|------------------------------------|-------|----|---------------------|-------------|----|
| Coolant Capacity | 27.9 | L | Max. Top Tank Temp. | 102 | °C |
| Std. Thermostat (Modulating) Range | 82~90 | °C | Fan Drive Method | Shaft drive | |

■ Air Intake System

| | | | | | |
|---------------------|-----|------|--------------------------------|------|-----|
| Combustion Air Flow | 673 | kg/h | Maximum Air Intake Restriction | ≤5.0 | kPa |
|---------------------|-----|------|--------------------------------|------|-----|

■ Exhaust System

| | | | | | |
|------------------|-------|------|-------------------|-------|-----|
| Exhaust Gas Flow | 702.7 | kg/h | Max.Back Pressure | ≤15.0 | kPa |
| Exhaust Gas Temp | ≤469 | °C | Exhaust Pipe Size | φ101 | mm |

■ Starting System

| | | | | |
|------------|----------------------|---------|-----|----|
| Start Mode | DC12V Electric start | Battery | 150 | Ah |
|------------|----------------------|---------|-----|----|

V. ALTERNATOR DATA

| | | | | |
|----------------------|----------|--------------------|--------------|--------|
| Alternator Model | SLG274G | Rate Power | 144/180 | kW/kVA |
| PF. | 0.8 | Voltage | 400/230 | V |
| Phase | 3 | Frequency | 50 | Hz |
| Connection | 3P 4W/Y | Bearing | 1 | |
| Winding Pitch | 2/3 | Proteccion Class | IP21 | |
| Insulation Class | H | Efficiency | 92.5% | |
| Tel. Influence | TIF: <50 | Voltage Regulation | ±1% | |
| Harmonic Coefficient | THF: <2% | AVR | AS440 | |
| Voltage Adjust Scope | ≥±5% | Excitation System | Self Excited | |

VI. CONTROL SYSTEM DATA

MODEL DSE6110/20 MKIII

■ Main feature

The DSE6110 MKII Auto Start Control Module and the DSE6120 MKII Auto Mains (Utility) Failure Control Module are suitable for a wide variety of single gen-set applications.

Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs and remote PC

The DSE6120 MKIII will also monitor the mains (utility) supply. The modules include USB connection and dedicated DSENet® terminals for system expansion.



- | | | |
|---|---|---|
| ▲4-line back-lit LCD text display | ▲Breaker control via fascia buttons | ▲Automatically transfers between mains (utility) and generator (DSE6120 MKIII only) for convenience |
| ▲Multiple display languages | ▲Fuel and start outputs configurable when using CAN | ▲Hours counter provides accurate information |
| ▲Five-key menu navigation | ▲6 configurable DC outputs | ▲User-friendly set-up and button layout for ease of use |
| ▲LCD alarm indication | ▲4 configurable analogue/digital input for monitoring and maintenance periods | ▲Multiple parameters are monitored & displayed simultaneously for full visibility |
| ▲Customisable power-up text and screen images. | ▲Support for 0 V to 10 V & 4 mA to 20 mA sensors | ▲The module can be configured to suit a wide range of applications for user flexibility |
| ▲DSENet® expansion compatibility | ▲8 configurable digital inputs | ▲PLC editor allows user configurable functions |
| ▲Data logging facility | ▲CAN, MPU and alternator frequency displayed simultaneously for full visibility | ▲Engine pre-heat and post-heat function to meet user specific application requirements. |
| ▲Internal PLC editor | ▲CAN, MPU and alternator speed sensing in one variant | ▲Mains (utility) current and power |
| ▲Protections disable feature | ▲Real time clock | |
| ▲Fully configurable via PC using USB communications | ▲Manual and automatic fuel pump control | |
| ▲Front panel configuration with PIN protection | ▲Engine run-time scheduler | |

- ▲Power save mode
- ▲3-phase generator sensing and protection
- ▲3-phase mains (utility) sensing and protection (DSE6120 MKIII only)
- ▲Automatic load transfer control (DSE6120 MKIII only)
- ▲Generator current and power monitoring (kW, kvar, kVA, pf)
- ▲Engine idle control for starting & stop monitoring (kW, kvar, kVA, pf)
- ▲Fuel level alarms (DSE6120 MKIII only)
- ▲3 configurable maintenance alarms
- ▲Compatible with a wide range of CAN engines, including Tier 4 engine support
- ▲Uses DSE Configuration Suite PC Software for simplified configuration
- ▲Licence-free PC software
- ▲IP65 rating (with optional gasket) offers increased resistance to water ingress
- ▲kW overload alarm
- ▲Over current protection
- ▲Configurable CAN read&transmitted information.
- ▲1 alternative configuration

VII. WARRANTY POLICY

1. Guarantee for one year or 1000 hours (accord to whichever reach first) from ex-factory date. Refer to 《YANAN Diesel Generator Warranty Manual》 for more details.
2. Wearing parts(filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

VIII. DRAWING (for illustration purposes only)

