

Yorking YDY100S3

| Main Configuration | | |
|---|------|-----------|
| Model (Sound-proof) | | YDY100S3 |
| Engine brand | | YTO |
| Engine model | | YD4GZLD |
| Alternator brand | | YORKING |
| Alternator model | | Y274C |
| Controller brand | | SMARTGEN |
| Controller model | | HGM 4020N |
| Electrical Performance | | |
| Frequency | Hz | 50 |
| Prime power | kVA | 90 |
| | kW | 72 |
| Standby power | kVA | 100 |
| | kW | 80 |
| Rated voltage | V | 230/400 |
| Rated current | A | 130 |
| Power factor | cosφ | 0,8 |
| Frequency droop δf | % | ≤5 |
| Steady-state frequency band β | % | ≤1.5 |
| Steady-state voltage regulation | % | ≤±2.5 |
| Transient frequency deviation(Sudden increase) δf _{dyn} ⁺ | % | ≤-10 |
| Transient frequency deviation(Sudden decrease) δf _{dyn} ⁻ | % | ≤+12 |
| Frequency recovery time t _r | S | ≤5 |

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|---|-----|-----------------|
| Transient voltage deviation(Sudden increase) δU_{dyn}^+ | % | ≤ -20 |
| Transient voltage deviation(Sudden decrease) δU_{dyn}^- | % | $\leq +25$ |
| Voltage recovery time t_U | S | ≤ 6 |
| Main genset data | | |
| Dimension (Sound-proof type)(L×W×H) | mm | 2710*1121*1597 |
| Net weight (Sound-proof type) | kg | 1950 |
| Fuel tank capacity | L | 280 |
| Continuous running time@100%load | Hr | 11 |
| Noise level@7m | dBa | 93 |
| Noise level@7m | dBa | 53 |
| Alternator | | |
| Brand | | YORKING |
| Model | | Y274C |
| Wiring type | | Star-series |
| Rated Power@1500rpm | kW | 80 |
| Efficiency | % | 90,4 |
| Excitation type | | Self-excitation |
| Telephone interference factor (TIF) | | < 50 |
| Telephone harmonic factor (THF) | | < 2% |
| Protection | | H |
| Insulation | | IP23 |
| Engine | | |
| Brand | | YTO |
| Model | | YD4GZLD |

| | | |
|--|---------------------|--------------|
| Rated power@1500rpm | kW | 90 |
| No. of cylinders | | 4 |
| Cylinder arrangement | | Vertical |
| Cooling system | | Water cooled |
| Bore | mm | 110 |
| Stroke | mm | 118 |
| Displacement | L | 4,3 |
| Compression ratio | | 18 |
| Governor type | | Electronic |
| Inlet System | | |
| Aspiration type | | Turbocharged |
| Max inlet resistance | kPa | 4,9 |
| Air flow | m ³ /min | 5,31 |
| Exhaust System | | |
| Exhaust gas temp(after Turbo) | °C | 550 |
| Exhaust flow | m ³ /min | 13,53 |
| Max exhaust back pressure | kPa | 6 |
| Lubricating System | | |
| Oil capacity | L | 17 |
| Oil grade | | CF 15W-40 |
| Oil consumption (as % of fuel consumption) | | 0,82% |
| Low Oil Pressure Warning | kPa | 100 |
| Cooling System | | |
| Coolant Capacity for Engine | L | 7,2 |
| Coolant capacity (w/radiator) | L | 20,5 |
| Max. Coolant Warning | °C | 95 |

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|--|-----|--------|
| Temperature | | |
| Max temp of radiator | °C | 50 |
| Fuel System | | |
| Injection method | | Direct |
| Fuel consumption (50%) | L/h | 14,2 |
| Fuel consumption (75%) | L/h | 18,9 |
| Fuel consumption (100%) | L/h | 22,1 |
| Starting System | | |
| Starter capacity | KW | 5 |
| Starting voltage | V | 24 |
| Battery capacity | Ah | 2x80 |
| | | |
| Preheat available for all models | | |
| Communication module SmartGen CMM366-4G compatible with all models | | |