

HYUNDAI

POWER EQUIPMENT

Diesel Generator
Standby Power 88KVA
3 Phase 1500 rpm

DHY88KSE



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

50Hz

DHY88KSE CANOPY TYPE

Standby 88KVA

Benefits and Feature

- > Use best quality vehicle engine, low fuel consumption, running reliable
- > Use high quality and performance brushless alternator, with AVR
- > High quality controller of COMAP/ DEEPSEA
- > Block design electrical control system, easy operate and maintenance
- > Standard 8 hours generator running base frame fuel tank (100% load)
- > With baseframe forklift hole and generator canopy lifting hole
- > Industrial waterproof canopy, ensure generator all days running
- > Industrial silencer (7 meters the noise is lower than 68 dB)
- > Easy operation , IP23 protection industrial sockets and plugs
- > Four pole circuit breaker with RCD earth protection
- > Standard ATS function connector

Technical Specification

| | | |
|--------------------------------|---------------|----------|
| Prime Power | KVA/ KW | 80 / 64 |
| Standby Power | KVA/ KW | 88/ 70 |
| Power Factor | | 0.8 |
| Frequency | Hz | 50 |
| Rate Voltage | V | 400/ 230 |
| Rate Current | A | 115.47 |
| Controller | COMAP/DEEPSEA | |
| Control Voltage | DC / V | 24 |
| Battery Capacity | Ah | 60x2 |
| Coolant Capacity | L | 13.8 |
| Fuel Tank Capacity(Base frame) | L | 160 |
| Fuel Consumption (100% load) | L/hour | 18.7 |
| Running Time | Hour | 8 |

Voltage

| | | |
|-------------------------|-----|---------------------|
| Steady state regulation | % | $\leq \pm 0.5$ |
| Dynamic voltage renewal | % | $\leq +20 \sim -15$ |
| Stable time | Sec | 2.0 |
| Waveform distortion | % | ≤ 3 |
| Volatility | | ≤ 0.5 |

Frequency

| | | |
|---------------------------|-----|--------------------|
| Steady state regulation | % | $\leq \pm 1$ |
| Dynamic frequency renewal | % | $\leq +10 \sim -7$ |
| Stable time | Sec | ≤ 3 |
| Volatility | | ≤ 0.5 |

Environment require

| | | |
|-------------|---|-------------|
| Temperature | C | ≤ 40 |
| Humidity | % | ≤ 60 |
| Altitude | m | ≤ 1000 |

Standard

ISO3046, ISO8528, ISO9001-2008

Dimension | Weight | Sound



DHY88KSE CANOPY TYPE

| | | |
|------------------------------------|----|------|
| Length (L) | mm | 2670 |
| Weight (W) | mm | 1080 |
| Height (H) | mm | 1450 |
| Weight net | kg | 1430 |
| loading capacity (units/container) | | |
| Sound @7 meter | db | 72 |

Note

1. Generator continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hours period
2. Every generator strictly test on 0%, 25%, 75%, 100%, 110% load dynamic responsiveness ability, and all protections

DIESEL ENGINE



Powerful engine and reliable running quality

Durable running performance and was proofed by vehicle's application

Compact structure

Compact structure and metal materials saving for low cost

Low maintenance and repair cost

Air, fuel and oil tubes are silicone and stainless steel materials, which reduce leakage problems substantially

Excellent start performance

Fuel injector and pump were tested fully in various environments, which provide excellent start and running performance

| | | |
|---------------------------|---------------------|-------------|
| Model | HY4ZTA4.1-G31 | |
| Prime power | Kw | 74 |
| Structure | 4 cylinder | |
| Fuel type | Diesel | |
| Fuel consumption | L/Hour | 18.7 |
| Lubricant consumption | L/Hour | 0.06 |
| Governor | Electronic | |
| Cooling | Water-cooled | |
| Lubricant capacity | L | 10 |
| Air intake flow | m ³ /min | 7.7 |
| Exhaust gas flow | m ³ /min | 20.8 |
| Exhaust gas temperature | °C | 550 |
| Exhaust gas back pressure | KPa | 10 |
| Compression ratio | 18:1 | |
| Aspiration | Turbocharged | |
| Bore | mm | 105 |
| Stroke | 118 | |
| Displacement | L | 4.1 |
| Dimension | mm | 927*627*959 |
| Weight | Kg | 370 |

ALTERNATOR

| | | |
|-------|--------|--|
| Model | 224G64 | |
|-------|--------|--|

| | | |
|-------------|-----|----|
| Prime power | kVA | 80 |
|-------------|-----|----|

| | | |
|-----------|-----------|--|
| Structure | 1 bearing | |
|-----------|-----------|--|

| | | |
|-----------------|-----------------|--|
| Excitation mode | Self-excitation | |
|-----------------|-----------------|--|

| | | |
|------------------|---|--|
| Insulation class | H | |
|------------------|---|--|

| | | |
|------------------|------|--|
| Protection class | IP23 | |
|------------------|------|--|

| | | |
|-----|-----|--|
| TIF | <50 | |
|-----|-----|--|

| | | |
|-----|-----|--|
| THF | <2% | |
|-----|-----|--|

| | | |
|----------|-------------------|--|
| Air flow | m ³ /s | |
|----------|-------------------|--|

| | | |
|-----------|-------|--|
| AVR Model | SX460 | |
|-----------|-------|--|



Best structure

Excellent design ensures compact structure and perfect appearance

Excellent performance

Excitation enhanced system improves start and short circuit's protection performance

Economy

Less parts involved and the most market's demand lead to cheap price and fine quality

Easy maintenance and repair

Core parts won't be involved in repair job, AVR can be replaced easily, examining diode doesn't disassemble rotor.

CONTROL PANEL

Controller

Comap AMF20



Support engine and alternator monitoring, measurement and protection. This is long-running and back-up unit to integrate the best way to control, support Modbus standard, modem, RS485, USB and internet.

Deepsea DSE6120



DSE6110/20 MKIII
AUTO START & AUTO MAINS (UTILITY)
FAILURE CONTROL MODULES

Measurement, displayment

| | |
|--------------------------------|---|
| Genset prime power Kw | ● |
| Power factor | ● |
| Engine speed | ● |
| Phase to neutral voltage | ● |
| Phase to phase voltage | ● |
| Genset frequency | ● |
| Genset current | ● |
| Mains Phase to neutral voltage | ○ |
| Mains Phase to phase voltage | ○ |
| Mains frequency | ○ |
| Engine oil pressure | ● |
| Engine water temperature | ● |
| Fuel level | ● |
| Battery voltage | ● |
| Genset power KVA | ● |
| Genset running time | ● |
| Genset output KWh | ● |
| History file | ● |

Alarm, shutdown function

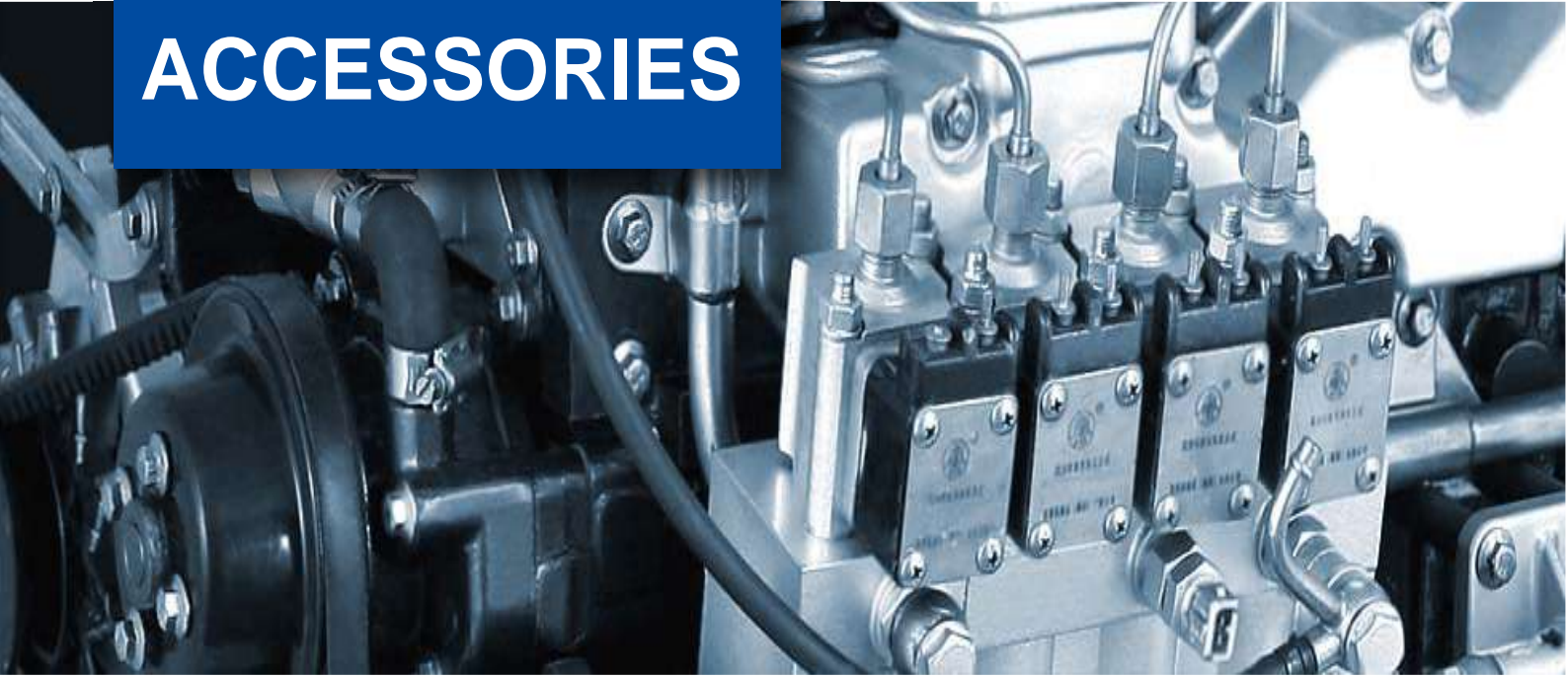
| | |
|--|---|
| Low oil pressure warning, shutdown | ● |
| High water temperature warning, shutdown | ● |
| Engine over and under speed shutdown | ● |
| Low fuel level warning, shutdown | ● |
| Battery low and high voltage warning | ● |
| Battery charging failure | ● |
| Genset low and high voltage warning, shut down | ● |
| Alternator 3 phase voltage unbalance shut down | ● |
| Alternator low and high frequency warning, shut down | ● |
| Genset over load shutdown | ● |
| Alternator 3 phase current unbalance shutdown | ● |
| Mains low and high voltage warning | ○ |
| Mains low and high frequency warning | ○ |

Optional

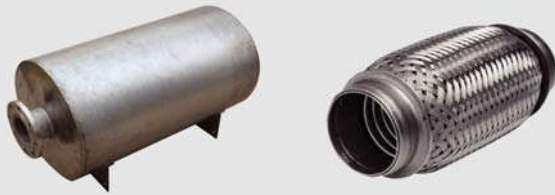
| | |
|------------------------|---|
| Remote start and stop | ● |
| RS232 card | x |
| USB card | ● |
| RS485 card | ○ |
| Multi language display | ○ |
| GPRS communication | ○ |
| GPS communication | ○ |

● standard ○ optional x None

ACCESSORIES



Exhaust system



Residential muffler

Exhaust gas pipe

Preheating system



Water preheater

Oil preheater

alternator Anti-condensation heater

Fuel system



Auto filling fuel pump

Manual filling fuel pump

500L base frame fuel tank

1000L base frame fuel tank

500L External fuel tank

1000L External fuel tank

Electrical system



AMF20 controller

IC-NT
synchronizing
controller

wireless remote starter

Maintenance spare parts



500 hours genset spare parts

1000 hours genset spare parts