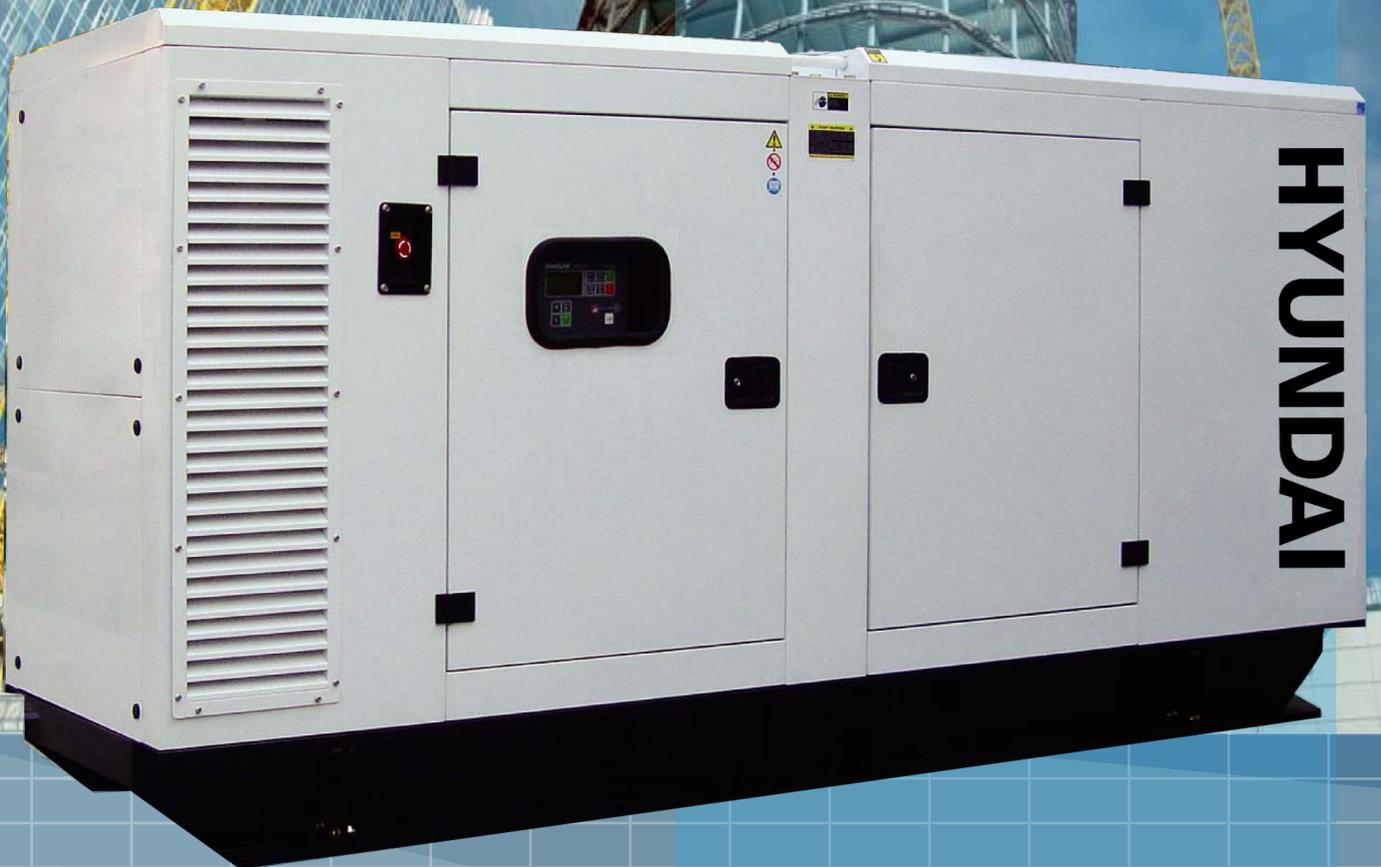


# HYUNDAI

POWER EQUIPMENT

**Diesel Generator**  
Standby Power 440KVA  
3 Phase 1500 rpm  
**DHY440KE**  
**DHY440KSE**



**All Days | Safty | Reliable | Stability**



# TECHNICAL SPECIFICATION

DHY440KE OPEN TYPE / DHY440KSE CANOPY TYPE

50Hz  
Standby 440KVA

## 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
- > 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	400 / 320
Standby Power	KVA / KW	440 / 352
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	A	635.1
Controller	COMAP AMF20	
Control Voltage	DC / V	DC24V
Battery Capacity	Ah	120x2
Coolant Capacity	L	64
Fuel Tank Capacity(Base frame)	L	700
Fuel Consumption	L / hour	89
Running Time	Hour	7.87

## Voltage

Steady state regulation	%	≤ ± 0.5
Dynamic voltage renewal	%	≤ +20~-15
Stable time	Sec	2.0
Waveform distortion		≤ 3
Volatility		≤ 0.5

## Frequency

Steady state regulation	%	≤ ± 1
Dynamic frequency renewal	%	≤ +10~-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



### DHY440KE OPEN TYPE

Length ( L )	mm	3195
Width ( W )	mm	1300
Height ( H )	mm	1612
Weight net	Kg	3090
loading capacity (units/container)		
Sound @7 meter	dB	92



### DHY440KSE CANOPY TYPE

Length ( L )	mm	4350
Width ( W )	mm	1400
Height ( H )	mm	2260
Weight net	Kg	4200
loading capacity (units/container)		
Sound @7 meter	dB	68

## 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	HY6K520YD	
Prime power	Kw	356
Structure	6 cylinder, inline	
Fuel type	Diesel	
Fuel consumption	L/Hour	89
Lubricant consumption	L/Hour	0.61
Governor	Electrical	
Cooling	Water	
Lubricant capacity	L	32
Air intake flow	m <sup>3</sup> /min	32
Exhaust gas flow	m <sup>3</sup> /min	23.3
Exhaust gas temperature	°C	67
Exhaust gas back pressure	KPa	10
Compression ratio	16.5	
Aspiration	Turbo charging intercooled	
Bore	mm	129
Stroke	155	
Displacement	L	12.16
SAE	1/14	
Dimension	mm	1981 × 933 × 1597
Net weight	Kg	1315

# ALTERNATOR

Model	314G320	
Prime power	kVA	400
Structure	1 Bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m <sup>3</sup> /s	0.8
AVR Model	SX440	



### 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

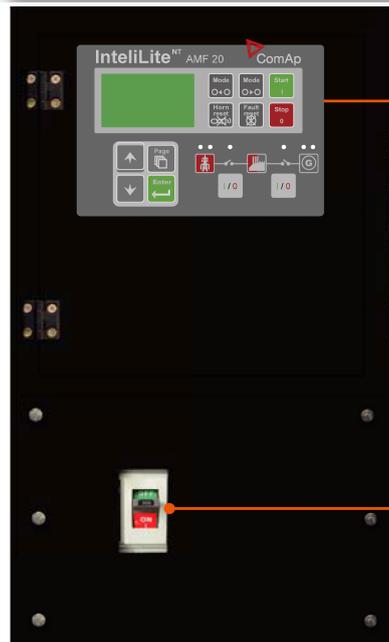


## Controller Comap AMF20



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.

## Control panel



AMF 20

Power switch

Measurement, displayment	AMF20
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