

# HYUNDAI

POWER EQUIPMENT

HYUNDAI ENGINE

50Hz Standby 440 KVA

**DHY440KE**  
**DHY440KSE**

**Diesel Generator**



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



# TECHNICAL SPECIFICATION

50Hz

DHY440KE OPEN TYPE / DHY440KSE CANOPY TYPE

STANDBY 440 KVA

## Benefits and Feature

- > Use Hyundai engine, low fuel consumption, running reliable
- > Hyundai high quality and performance brushless alternator, with AVR
- > High quality controller of COMAP IntelliLite 9
- > 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, IP66 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	577.4
Controller	COMAP IntelliLite 9	
Control Voltage	DC / V	DC24V
Battery Capacity	Ah	240
Coolant Capacity	L	86
Fuel Tank Capacity(Base frame)	L	950
Fuel Consumption	L / hour	88.1
Running Time	Hour	10.78

## Voltage

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

## Frequency

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

## Environment require

Temperature	C	$\leq 40$
Humidity	%	$\leq 60$
Altitude	m	$\leq 1000$

## Standard

ISO3046、ISO8528、ISO9001-2008

## Dimension | Weight | Sound



DHY440KE	Open Type	
Length	mm	3500
Width ( W )	mm	1628
Height ( H )	mm	1950
Weight net	Kg	4560
loading capacity (units/container)		
Sound @7 meter	dB	



DHY440KSE	Canopied Type	
Length	mm	4850
Width ( W )	mm	1628
Height ( H )	mm	2270
Weight net	Kg	5630
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 of the responsiveness ability, and all protections

# HYUNDAI DIESEL ENGINE



**1,Advanced design and precise manufacturing ensure low fuel consumption.**

**2,Strong power and perfect low speed performance.**

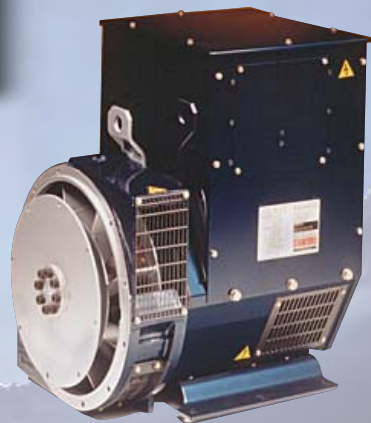
**3,Excellent start performance,Reliable running quality,less spare parts involved provides easy maintenance and repair job.**

**4,Fuel injector and pump were tested fully in Various environments,which provide excellent**

Model	HY6T55L-DY	
Prime power	Kw	368
Structure	6 cylinder,inline	
Fuel type	diesel	
Fuel consumption	L/Hour	88.1
Lubricant consumption	L/Hour	0.61
Governor	electrical	
Cooling	Water	
Rotate speed	1500rpm	
Air intake flow	m <sup>3</sup> /s	21
Exhaust gas flow	m <sup>3</sup> /s	60
Exhaust gas temperature	°C	550
Exhaust gas back pressure	KPa	10
Compression ratio	15:1	
Aspiration	Turbocharging	
Bore × Stroke	mm	145 x 165
Lubricant capacity	L	52
Displacement	L	16.35
SAE	1/14	
Dimension	mm	2472 x 1440 x 1669
Net weight	Kg	1980

# HYUNDAI ALTERNATOR

Model	K444F	
Prime power	kVA	440
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	AS440	



### 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 IntelliLite 9



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, RS232, RS485, USB and internet.

## Control panel



Comap IntelliLite 9

ATS connector

24 pin Heavy duty connector



3 phase socket

### Measurement, displayment IntelliLite 9

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	○
USB card	●
RS485 card	○
Multi language display	○
GPRS communication	○
GPS communication	○

● standard ○ Optional × 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