

# HYUNDAI

## POWER PRODUCTS

HYUNDAI ENGINE

50Hz Standby 60KVA

**DHY60KE**  
**DHY60KSE**

**Diesel Generator**



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



# TECHNICAL SPECIFICATION

DHY60KE OPEN TYPE / DHY60KSE CANOPY TYPE

50Hz  
Standby 60KVA

## 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 iL-NT MRS10
- > 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 70 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	55 / 44
Standby Power	KVA / KW	60.5 / 48.4
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	A	86.6
Controller	IL-NT MRS10	
Control Voltage	DC / V	12
Battery Capacity	Ah	55
Coolant Capacity	L	13
Fuel Tank Capacity(Base frame)	L	180
Fuel Consumption	L / hour	16.1
Running Time	Hour	11

## 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

## Dimension | Weight | Sound



### DHY60KE Open type

Length ( L )	mm	1955
Width ( W )	mm	950
Height ( H )	mm	1360
Weight net	Kg	995
loading capacity (units/container)		
Sound @7 meter	dB	



### DHY60KSE Canopy Type

Length ( L )	mm	2500
Width ( W )	mm	950
Height ( H )	mm	1250
Weight net	Kg	1090
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 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.**

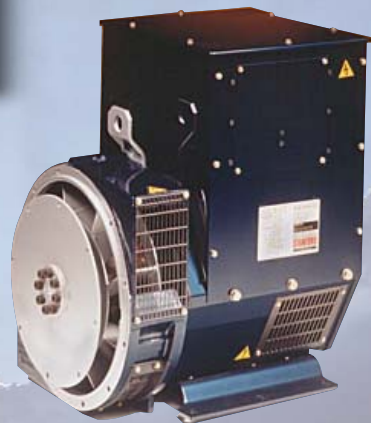
**3,Excellent start performance,Reliable running quality,less spare parts involved provides easy maintenance and repair job.**

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

Model	HY4108ZD	
Prime power	Kw	60
Structure	4 cylinder,inline	
Fuel type	Diesel	
Fuel consumption	L/Hour	16.1
Lubricant consumption	L/Hour	0.054
Governor	Mechanical	
Cooling	Water	
Rotate speed	1500rpm	
Air intake flow	m <sup>3</sup> /s	6.3
Exhaust gas flow	m <sup>3</sup> /s	16
Exhaust gas temperature	°C	480
Exhaust gas back pressure	KPa	9
Compression ratio	17	
Aspiration	Turbocharging	
Bore × Stroke	mm	108 × 120
Lubricant capacity	L	11
Displacement	L	4.4
SAE	3/11.5	
Dimension	mm	875 × 590 × 870
Net weight	Kg	420

# HYUNDAI ALTERNATOR

Model	224E	
Prime power	kVA	60
Structure	1 Bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m <sup>3</sup>	0.216
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.



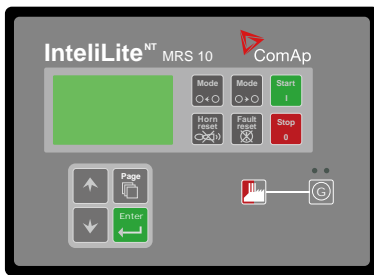
# CONTROL PANEL



Measurement, displayment	MRS10
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	●
Alternator3 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	○

## Controller

## Comap MRS10



Support engine and alterantor 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 MRS10

ATS connector

24 pin  
Heavy duty connector

Power switch



Single phase socket

● 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