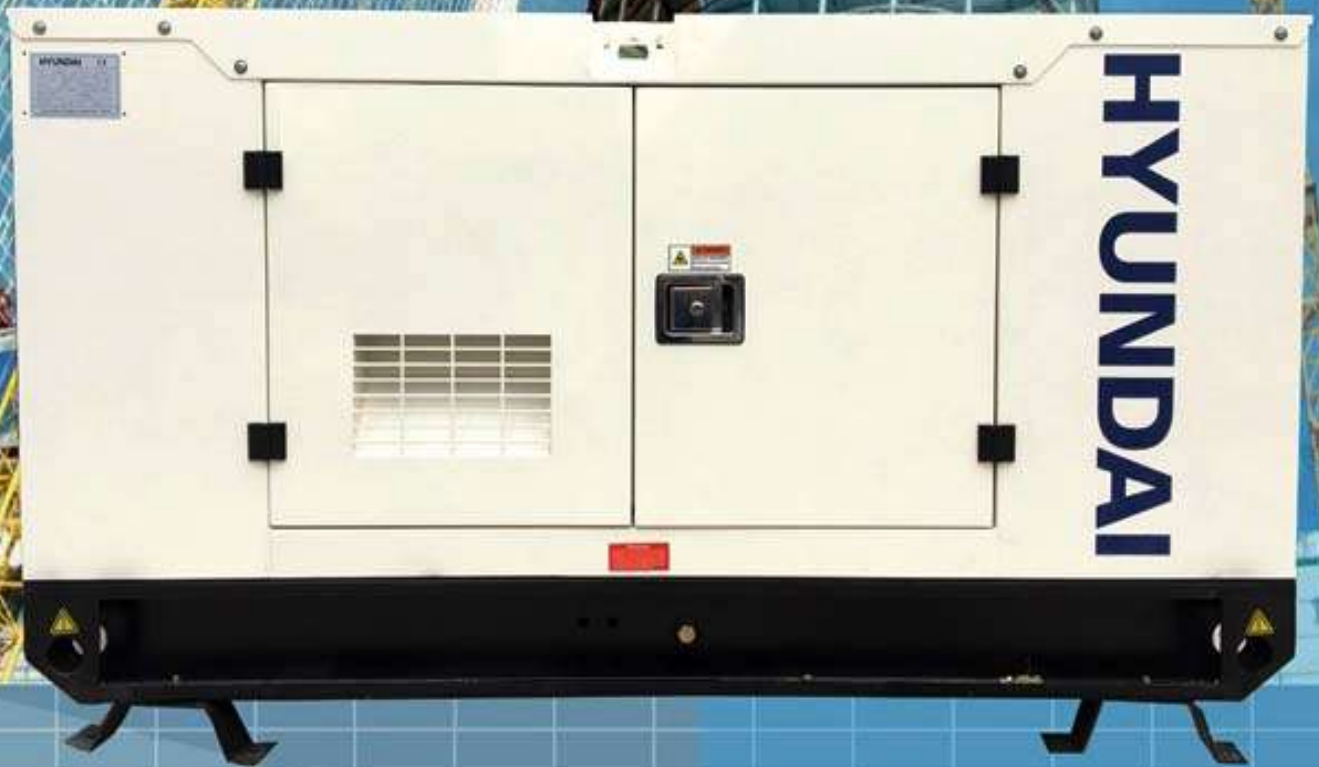


# HYUNDAI

POWER EQUIPMENT

**Diesel Generator**  
**Standby Power 44KVA**  
3 Phase 1500 rpm  
**DHY45KE**  
**DHY45KSE**



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



# TECHNICAL SPECIFICATION

DHY45KE OPEN TYPE / DHY45KSE CANOPY TYPE

50Hz  
Standby 44KVA

## 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/ DEEPEA
- > 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	40 / 32
Standby Power	KVA/ KW	44 / 35.2
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	A	63.5
Controller	COMAP/DEEPEA	
Control Voltage	DC / V	24
Battery Capacity	Ah	60x2
Coolant Capacity	L	11.26
Fuel Tank Capacity(Base frame)	L	75
Fuel Consumption	L/hour	11.77
Running Time	Hour	8.5

## 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



### DHY45KE OPEN TYPE

Length	mm	1950
Width ( W )	mm	780
Height ( H )	mm	1080
Weight net	Kg	820
loading capacity (units/container)		
Sound @7 meter	dB	92



### DHY45KSE CANOPY TYPE

Length	mm	2100
Width ( W )	mm	900
Height ( H )	mm	1400
Weight net	Kg	940
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	HY4105D	
Prime power	Kw	38
Structure	4 cylinder, inline	
Fuel type	Diesel	
Fuel consumption	L/Hour	11.77
Lubricant consumption	L/Hour	0.054
Governor	Electronic	
Cooling	Water	
Lubricant capacity	L	12.5
Air intake flow	m <sup>3</sup> /min	3.1
Exhaust gas flow	m <sup>3</sup> /min	9.3
Exhaust gas temperature	°C	550
Exhaust gas back pressure	KPa	6.7
Compression ratio	17	
Aspiration	Natural	
Bore	mm	102
Stroke	118	
Displacement	L	3.86
SAE	3/11.5	
Dimension	mm	870 × 770 × 680
Net weight	Kg	350

# ALTERNATOR

Model	184J	
Prime power	kVA	40
Structure	1 bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m <sup>3</sup> /s	0.216
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	○

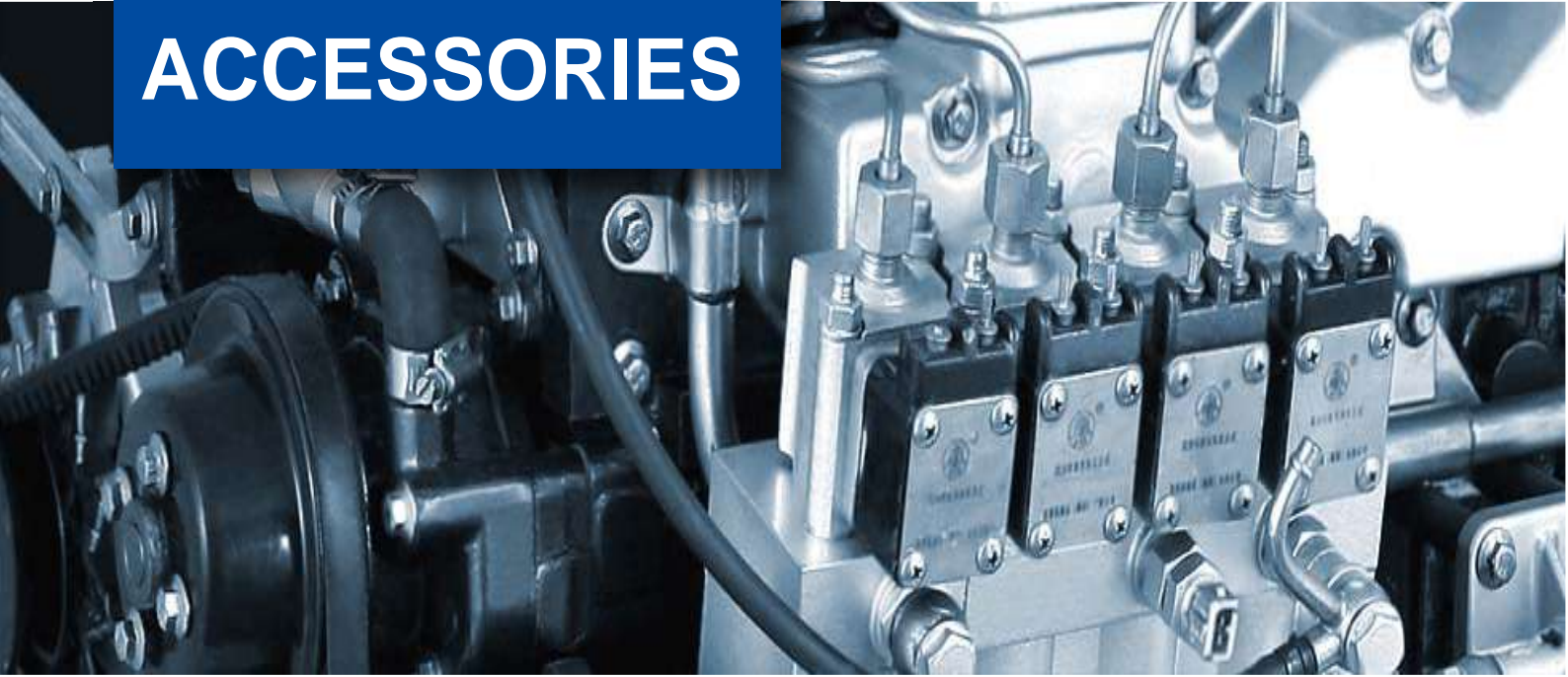
### Optional

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