



50Hz Standby 44KVA

DHY45KE DHY45KSE Diesel Generator



HYUNDAI
POWER PRODUCTS

All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY45KE OPEN TYPE / DHY45KSE CANOPY TYPE

50Hz
Standby 44KVA

Benefits and Feature

- > Use Chinese high quality vehicle 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	40 / 32
Standby Power	KVA / KW	44 / 35
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	A	57.7
Controller		MRS10
Control Voltage	DC / V	24
Battery Capacity	Ah	45 × 2
Coolant Capacity	L	17
Fuel Tank Capacity(Base frame)	L	93
Fuel Consumption	L / hour	10.2
Running Time	Hour	9.1

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

Dimension | Weight | Sound



DHY45KE OPEN TYPE

Length	mm	1810
Width (W)	mm	950
Height (H)	mm	1030
Weight net	Kg	815
loading capacity (units/container)		
Sound @7 meter	dB	



DHY45KSE CANOPY TYPE

Length	mm	2200
Width (W)	mm	950
Height (H)	mm	1230
Weight net	Kg	1045
loading capacity (units/container)		
Sound @7 meter	dB	

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

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	HY4DX21-53D	
Prime power	Kw	39
Structure	4 Cylinders,inline	
Fuel type	Diesel	
Fuel consumption	L/Hour	10.2
Lubricant consumption	L/Hour	0.06
Governor	Electric	
Coolling	Water	
Lubricant capacity	L	12.5
Air intake flow	m³/min	3.2
Exhaust gas flow	m³/min	8.4
Exhaust gas temperature	°C	480
Exhaust gas back pressure	KPa	5
Compression ratio	17	
Aspiration	Natural	
Bore	mm	102
Stroke	118	
Displacement	L	3.86
SAE	3/11.5	
Dimension	mm	810 × 680 × 800
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	m³/s	0.15
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

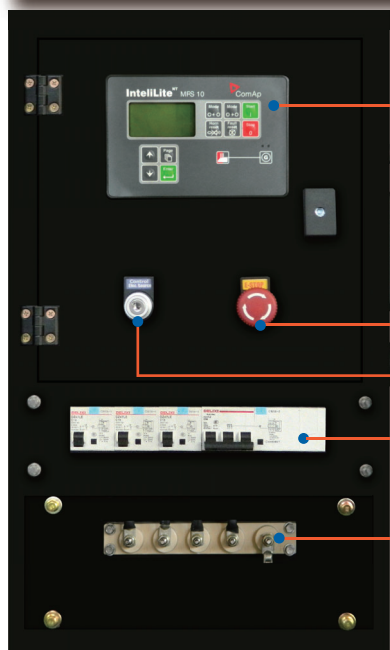
Controller

Comap MRS10



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 MRS10

ATS connector

24 pin
Heavy duty connector

Emergency stop button

Power switch

1x3 phase circuit breaker

3x single phase circuit breaker

Wire connect terminal
U.V.W.N.PE

Single phase socket

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

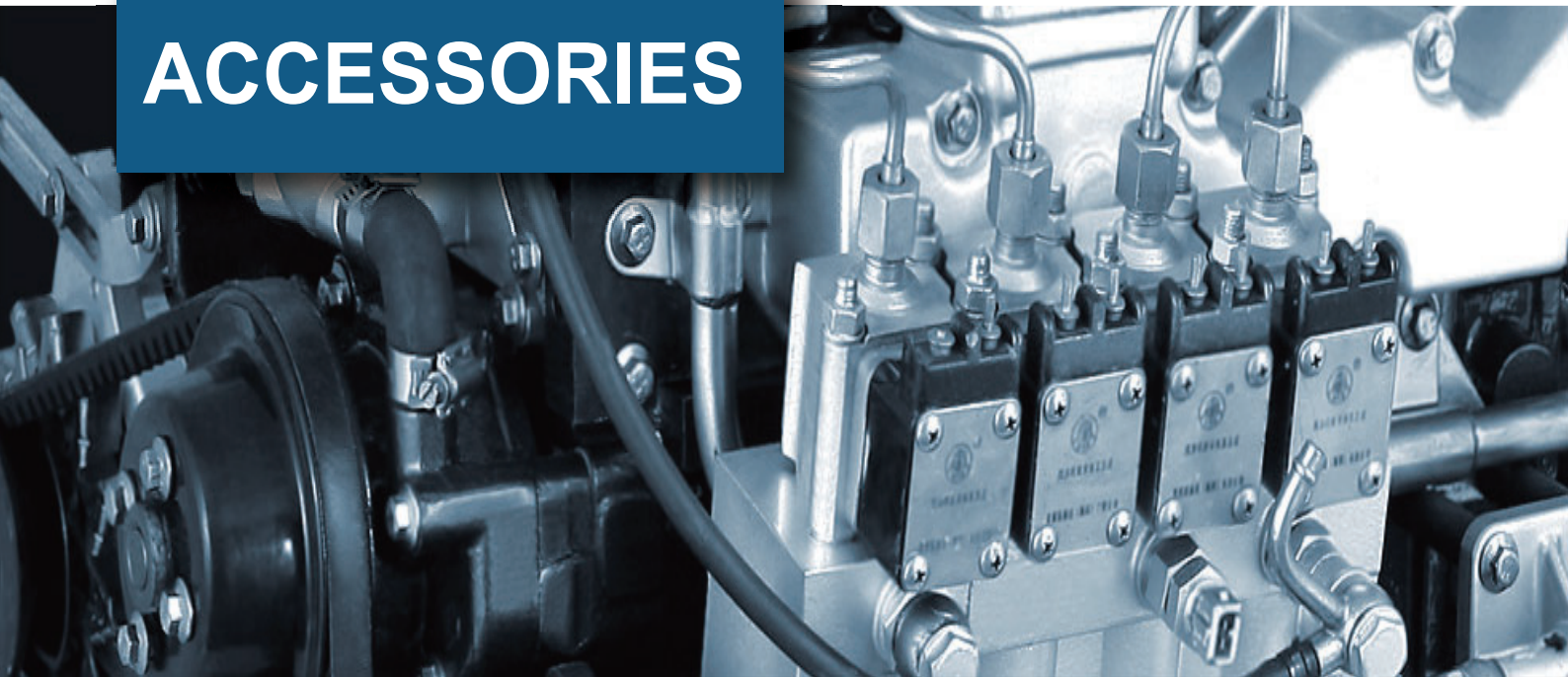
Low oil pressure warning, shutdown	●
High water temperature warning, shutdown	●
Engine over and under speed shutdown	●
Low fuel level warning, shutdown	●
battery low and high voltage warning	●
battery charging failure	●
Genset low and high voltage warning, shut down	●
Alternator 3 phase voltage unbalance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

Optional

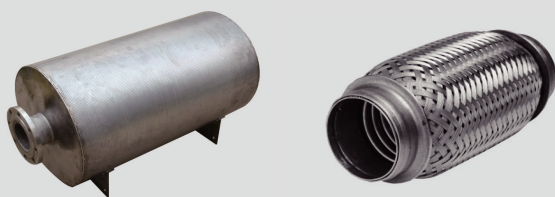
Remote start and stop	●
RS232 card	○
USB card	○
RS485 card	○
Multi language display	○
GPRS communication	○
GPS communication	×

● standard ○ optional × None

ACCESSORIES



Exhaust system



☐ Residential muffler

☐ Exhaust gas pipe

preheating system

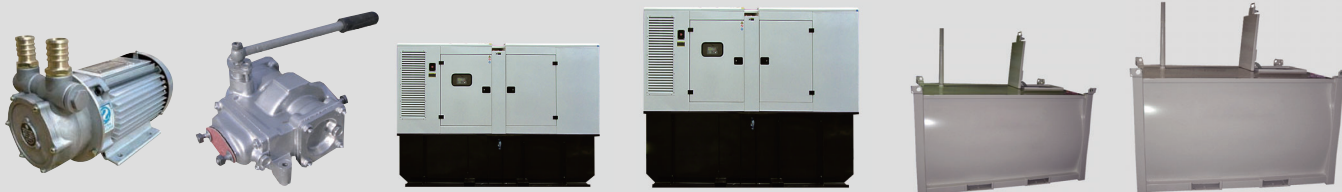


☐ Water preheater

☐ 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