

All Days | Safty | Reliable | Stability













### **TECHNICAL SPECIFICATION**

DHY90KE OPEN TYPE / DHY90KSE CANOPY TYPE

50Hz Standby 90KVA

### **Benefits and Feature**

- > Use HYUNDAl best 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 , IP23 protection industrial sockets and plugs
- > Four pole circuit breaker with RCD earth protection
- > Standard ATS function connector

Technical Specification		
Prime Power	KVA/ KW	82 / 66
Standby Power	KVA/ KW	90 / 72
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	Α	118.4
Controller		IL-NT MRS10
Control Voltage	DC/V	24
Battery Capacity	Ah	55x2
Coolant Capacity	L	13
Fuel Tank Capacity(Base frame)	L	245
Fuel Consumption	L/hour	19.6
Running Time	Hour	13

#### Voltage

%	≤ ± 0.5
%	≤+20~-15
Sec	2.0
%	<b>≤</b> 3
%	≤0.5
%	≤ ± 1
%	≤+10~-7
Sec	<b>≤</b> 3
%	≤0.5
С	≤40
%	≤60
70	~ ~ ~
m	≤1000
-	
	% Sec % % % % Sec % C

### Dimension | Weight | Sound



### DHY90KE OPEN TYPE

Length	mm	2395
Width (W)	mm	1000
Height ( H )	mm	1410
Weight net	Kg	1140
loading capacity (units/		_
container) Sound @7	dB	



### DHY90KSE CANOPY

Length	mm	3400
Width (W)	mm	1000
Height ( H )	mm	1700
Weight net	Kg	1530
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



Powerful engine and reliable running quality Durable running performace 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 perfomance**

Fuel injector and pump were tested fully in Various environments, which provide excellent start and running preformance

# **DIESEL ENGINE**

	Model		HY4M3L-D
	Prime power	Kw	70
	Structure		4 cylinder,inline
	Fuel type		Diesel
	Fuel consumption	L/Hour	19.6
	Lubricant consumption	L/Hour	0.098
	Governor		Electrical
	Coolling		Water
	Lubricant capacity	L	11
	Air intake flow	m³/s	6.8
	Exhaust gas flow	m³/s	18.5
b	Exhaust gas temperature	$^{\circ}$	485
	Exhaust gas back pressure	KPa	6
	Compression ratio		17
	Aspiration		Turbochargering
	Bore	mm	110
	Stroke		125
	Displacement	<u>L</u>	4.75
	SAE		3/11.5
	Dimension	mm	$875 \times 590 \times 870$
	Net weight	Kg	560

### **ALTERNATOR**

Model		224G
Prime power	kVA	85
Structure		1 bearing
Excitation mode		Self-excitation
Insulation class	MANAGE S	Н
Protection class		IP23
TIF		<50
THF	31	<2%
Air flow	m³/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

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



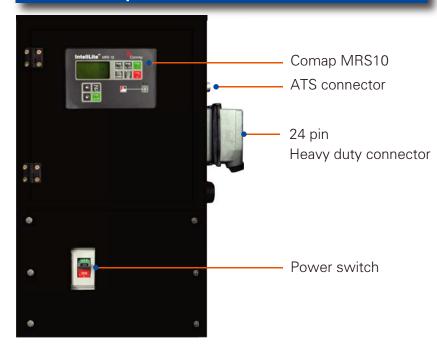
### Controller

### Comap MRS10



Support engine and 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



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 chargering 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	0
USB card	0
RS485 card	0
Multi language display	0
GPRS communication	0
GPS communication	0
● standard ○ optional ×	None

Measurement, displayment

MRS10











