

# HYUNDAI

POWER EQUIPMENT

HYUNDAI ENGINE  
Standby Power 14KVA

DHY14KE  
DHY14KSE  
Diesel Generator



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



# TECHNICAL SPECIFICATION

DHY14KE OPEN TYPE / DHY14KSE CANOPY TYPE

50Hz  
Standby 14KVA

## Benefits and Feature

- > Use HYUNDAI 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	12.5 / 10
Standby Power	KVA/ KW	13.8 / 11
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	A	18.0
Controller	iL-NT MRS10	
Control Voltage	DC / V	12
Battery Capacity	Ah	55
Coolant Capacity	L	6
Fuel Tank Capacity(Base frame)	L	46
Fuel Consumption	L/hour	4.5
Running Time	Hour	10

## 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



### DHY14KE OPEN TYPE

Length	mm	1510
Width ( W )	mm	900
Height ( H )	mm	980
Weight net	Kg	480
loading capacity (units/container)		
Sound @7 meter	dB	



### DHY14KSE CANOPY TYPE

Length	mm	1630
Width ( W )	mm	760
Height ( H )	mm	1115
Weight net	Kg	655
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	HY390	
Prime power	Kw	14
Structure	3 cylinder,inline	
Fuel type	Diesel	
Fuel consumption	L/Hour	4.5
Lubricant consumption	L/Hour	0.0225
Governor	Mechanical	
Cooling	Water	
Lubricant capacity	L	3.5
Air intake flow	m <sup>3</sup> /s	1.6
Exhaust gas flow	m <sup>3</sup> /s	4.5
Exhaust gas temperature	°C	550
Exhaust gas back pressure	KPa	5
Compression ratio	18	
Aspiration	Natural	
Bore	mm	90
Stroke	95	
Displacement	L	1.36
SAE	5/7.5	
Dimension	mm	614 × 494 × 626
Net weight	Kg	155

# ALTERNATOR

Model	164C	
Prime power	kVA	14
Structure	1 bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m <sup>3</sup> /s	0.071
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



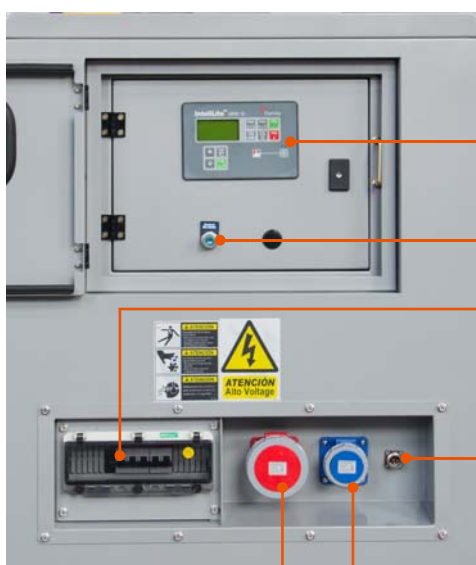
## Controller

## 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

Power switch

Circuit breaker

ATS connector

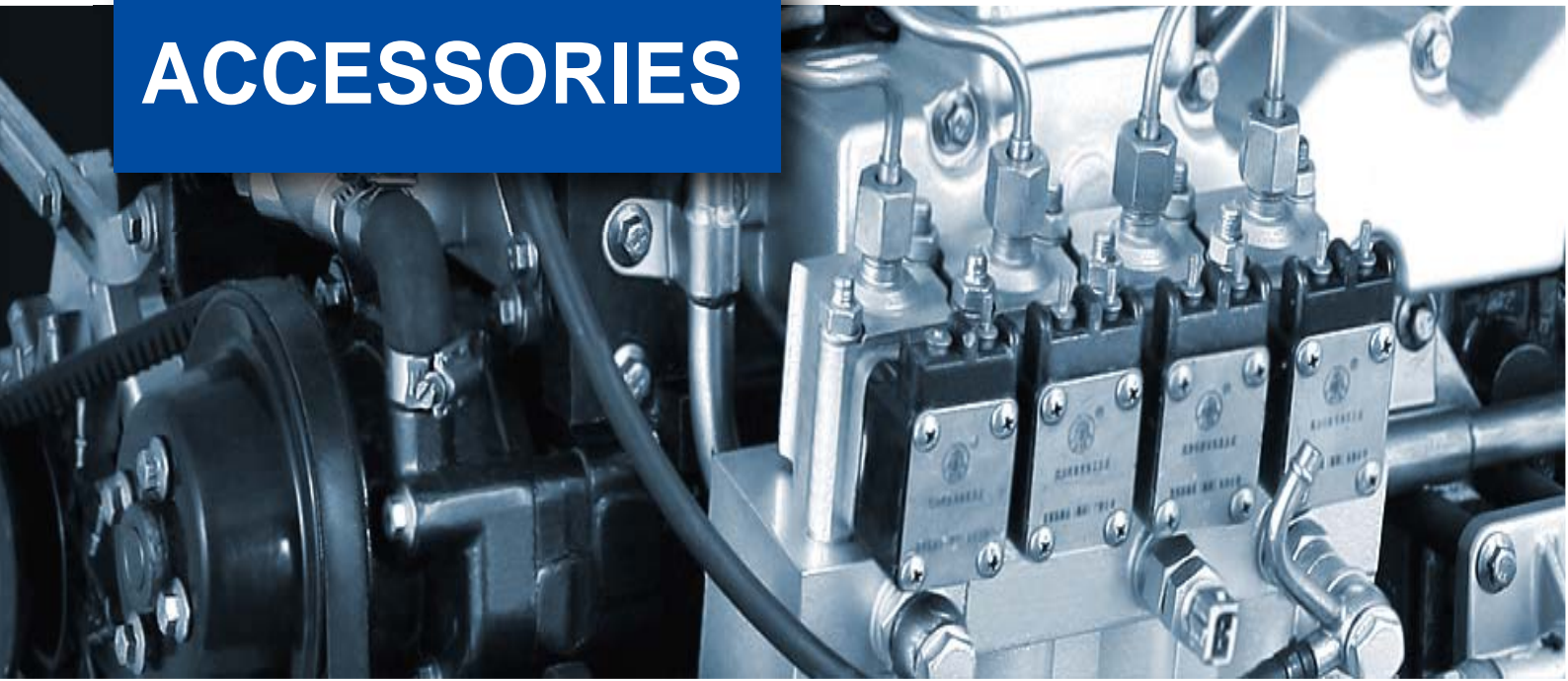
Single phase socket

3 phase socket

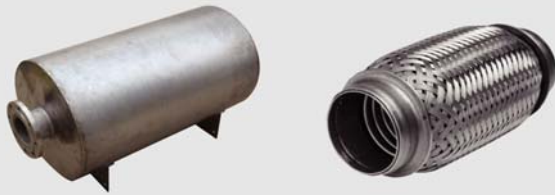
Measurement, displayment	MRS10
Genset prime power Kw	●
Power factor	●
engine speed	●
Phase to neutral voltage	●
Phase to phase voltage	●
Genset frequency	●
Genset current	●
Mains Phase to neutral voltage	×
Mains Phase to phase voltage	×
Mains frequency	×
engine oil pressure	●
engine water temperature	●
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