

HYUNDAI

POWER EQUIPMENT

HYUNDAI ENGINE
Standby Power 9KVA

**DHY9KEm
DHY9KSEm
Diesel Generator**



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY9KEm Open Type / DHY9KSEm Canopy Type

50Hz
Standby 9KVA

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 IntelliLite 9
- > 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	8 / 8
Standby Power	KVA/ KW	8.8 / 8.8
Power Factor		1
Frequency	Hz	50
Rate Voltage	V	230
Rate Current	A	34.8
Controller	COMAP IntelliLite 9	
Control Voltage	DC / V	DC12
Battery Capacity	Ah	60
Coolant Capacity	L	5.8
Fuel Tank Capacity(Base frame)	L	42
Fuel Consumption	L/hour	3.5
Running Time	Hour	12

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、ISO9001-2008

Dimension | Weight | Sound



DHY9KEm Open Type

Length	mm	1510
Width (W)	mm	780
Height (H)	mm	910
Weight net	Kg	365
loading capacity (units/container)		
Sound @7 meter	dB	



DHY9KSEm Canopy Type

Length	mm	1500
Width (W)	mm	760
Height (H)	mm	1090
Weight net	Kg	480
loading capacity (units/container)		
Sound @7 meter	dB	67

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 preformance

Model		HY380
Prime power	Kw	11
Structure		3 cylinder,inline
Fuel type		Diesel
Fuel consumption	L/Hour	3.5
Lubricant consumption	L/Hour	0.0175
Governor		Mechanical
Cooling		Water
Lubricant capacity	L	3.5
Air intake flow	m³/s	1.6
Exhaust gas flow	m³/s	4.5
Exhaust gas temperature	°C	550
Exhaust gas back pressure	KPa	5
Compression ratio		18
Aspiration		Natural
Bore	mm	80
Stroke		90
Displacement	L	1.36
SAE		5/7.5
Dimension	mm	608 × 490 × 578
Net weight	Kg	155

ALTERNATOR

Model		164B
Prime power	kVA	7.4
Structure		1 bearing
Excitation mode		Self-excitation
Insulation class		H
Protection class		IP23
TIF		<50
THF		<2%
Air flow	m³/s	0.071
AVR Model		AX440



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



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 IntelliLite 9

ATS connector

24 pin
Heavy duty connector



3 phase socket

Measurement, displayment	IntelliLite 9
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	x
Alternator low and high frequency warning, shut down	●
Genset over load shutdown	●
Alternator 3 phase current unbalance shutdown	x
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 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