

# HYUNDAI

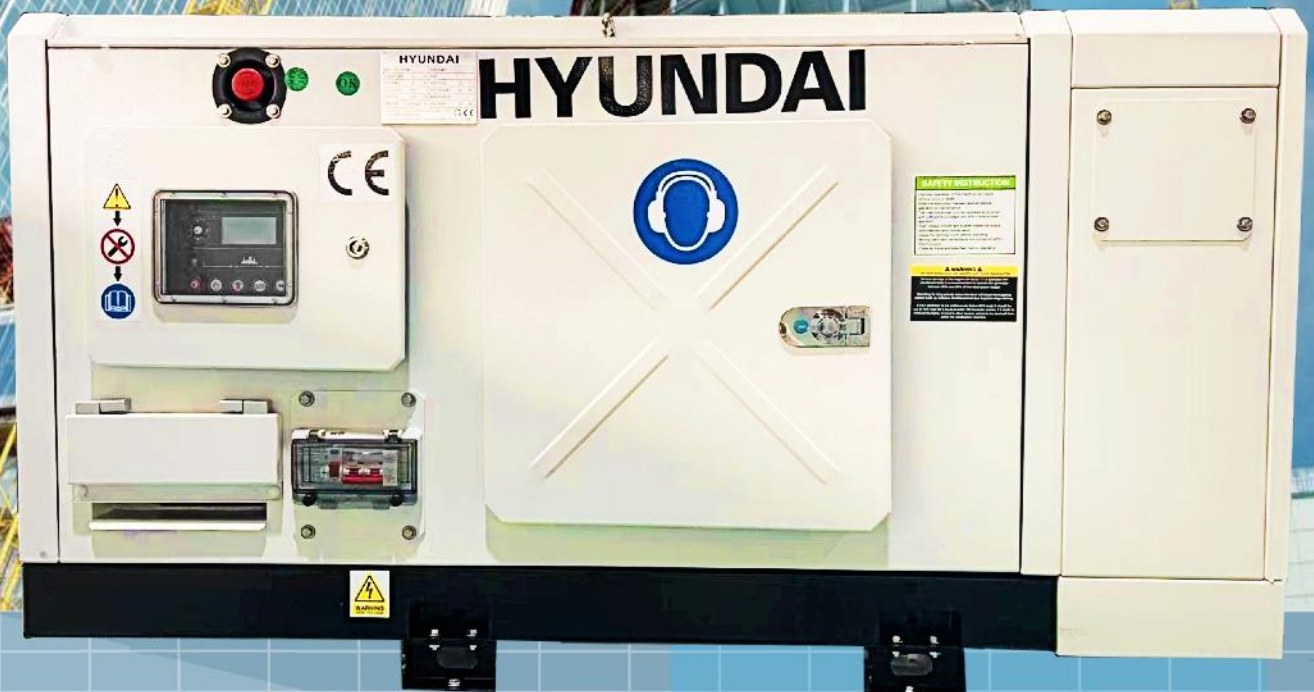
POWER EQUIPMENT

Standby Power 9.35KVA

1 Phase 1500 rpm

**DHY9KSV**

**Diesel AC Generator**



***All Days / Safty / Reliable / Stability***



# TECHNICAL SPECIFICATION

DHY9KSV CANOPY TYPE – 1500rpm

50Hz  
Standby 9.35KVA

## Benefits and Feature

- Use best quality vehicle, low fuel consumption, running reliable. Direct drive mechanism with coaxial coupling
- High quality and performance brushless alternator, self-excited with AVR
- High quality controller of Datakom
- Block design electrical control system, easy operate and maintenance with circuit breaker protection.
- With baseframe forklift hole and generator canopy lifting hole
- Industrial waterproof canopy, ensure smooth machine operation, IP23 ensures outdoor placement
- Built-in battery charger
- 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	8.5/ 8.5
Standby Power	KVA/KW	9.35/ 9.35
Power Factor		1.0
Frequency	Hz	50
Rate Voltage	V	220-230
Rate Current	A	38.6
Controller	Datakom D300MK3	
Control Voltage	DC/V	12
Phase, Wire	1 phase 2 wires	
Coolant Capacity	L	4.85
Fuel Tank Capacity (Base frame)	L	60
Fuel Consumption (75%/100%)	L/hour	2.5/3.5
Running Time	Hour	12
Battery	AH	90

### Voltage

Steady state regulation	%	$\leq \pm 0.5$
Dynamic voltage renewal	%	$\leq +20 \sim -15$
Stable time	Sec	20-30
Wave form distortion	%	$\leq 3$

### Frequency

Steady state regulation	%	$\leq \pm 1$
Dynamic frequency renewal	%	$\leq +10 \sim -7$
Stable time	Sec	20-30

### Environment require

Temperature	°C	$\leq 50$
Humidity	%	$\leq 90$
Altitude	M	$\leq 1000$

Standard ISO 9001:2015, ISO 14001:2015

## Dimension | Weight | Sound



### DHY9KSV CANOPY TYPE

Length (L)	mm	1625
Width (W)	mm	740
Height (H)	mm	1000
Weight net	Kg	552
Loading capacity (unit/container)		
Sound @7 meter	dB	65

## Note

1. Generator continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period
2. Every generator strictly test on 0%, 25%, 75%, 100%, 110% load, dynamic of the responsiveness ability, and all protections





## FAWDE 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 and changeable.

**Excellent start performance**  
Fuel injector and pump were tested fully in various environments, which provide excellent start and running performance and air exhaust easily

Model	4DW81-23D	
Prime /Standby Power	Kw	17/19
Structure	4 cylinders	
Fuel type	Diesel	
Fuel Injection	Direct	
Lubricant consumption	L/Hour	0.05
Governor	Electronic	
Cooling	Water and fan	
Lubricant capacity	L	7.8
Air intake resistance	kPa	3.7
Exhaust gas flow	m³/min	4.7
Exhaust gas temperature	°C	480
Exhaust gas back pressure	KPa	6.7
Compression ratio	17:1	
Aspiration	Nature	
Bore	mm	85
Stroke	Mm	100
Displacement	L	2.27
SAE	SAE4	
Dimension	mm	750x555x680
Net weight	Kg	220

## LONGKAI ALTERNATOR

Model	LK164C	
Prime power	kVA	9.0
Structure	1 bearing	
Excitation mode	Self-excitation, brushless	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m³/s	0.071
AVR mode	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

# CONTROL PANEL

## Controller

## Datakom D300 MK3



Specialized for generator, Easy-to-replace module structure, English language, support monitoring, measuring and protecting engine and generator, AMF function automatically starts the generator with grid failure. Support Modbus, modem, RS232, RS485, USB and internet standards.

## Control panel



Datakom D300 MK3 Test/Run/Auto/Stop functions, with function buttons, error warning LED, displaying machine operating status. Number of operating hours until maintenance. Display and analyze voltage in graph form.

Measurement, displayment	D300 MK3
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 warning shutdown	●
Low fuel level warning, shutdown	●
Battery low and high voltage warning	●
Starting failure	●
Genset low and high voltage warning, shutdown	●
Alternator 3 phase voltage unbalance, shutdown	×
Alternator low and high frequency warning, shutdown	●
Genset over load over current: warning/ shutdown	●
Alternator 3 phase current unbalance shutdown	×
Circuit breaker protection of short circuit and overload	●
Overload relay protection	●
Optional	
Remote start and stop	●
RS232 card	●
USB card	●
RS485 card	●
Multi language display	●
GPRS communication	●
GPS communication	●

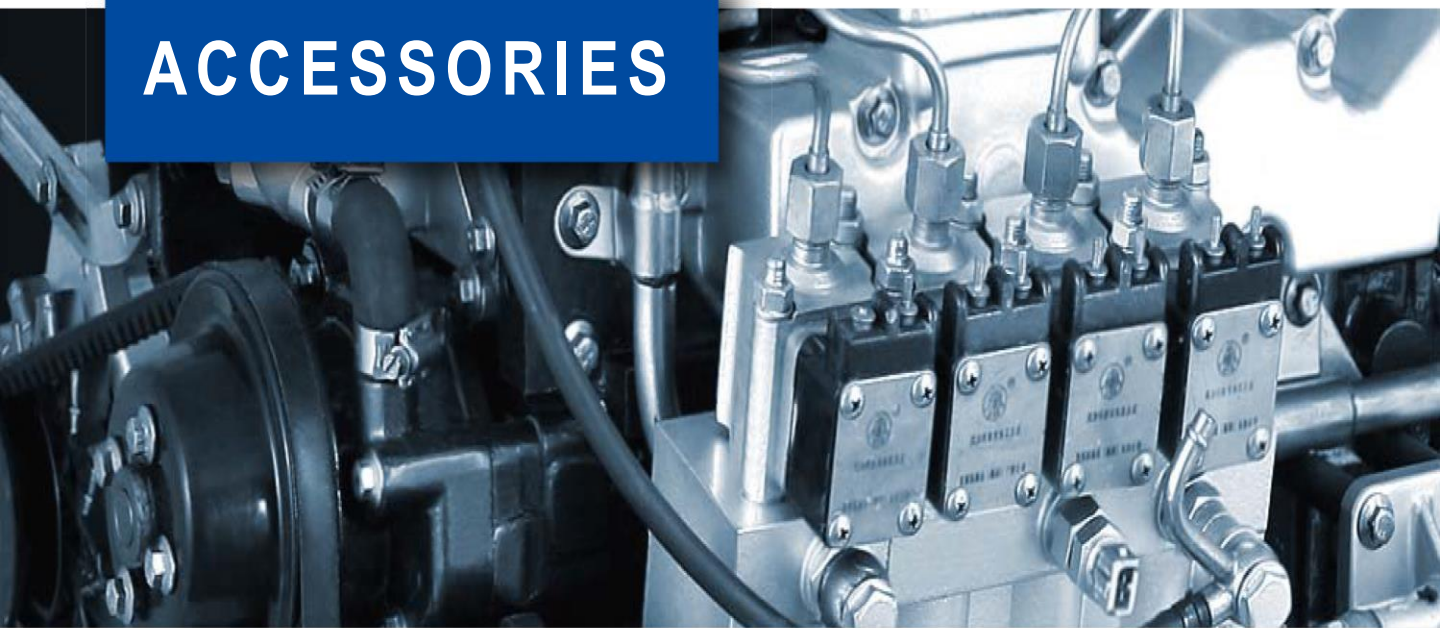
● standard

○ optional

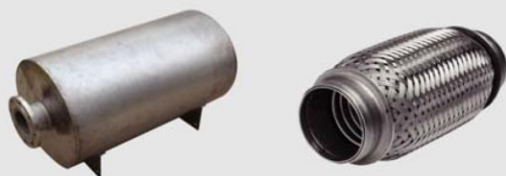
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# ACCESSORIES



## 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