

HYUNDAI

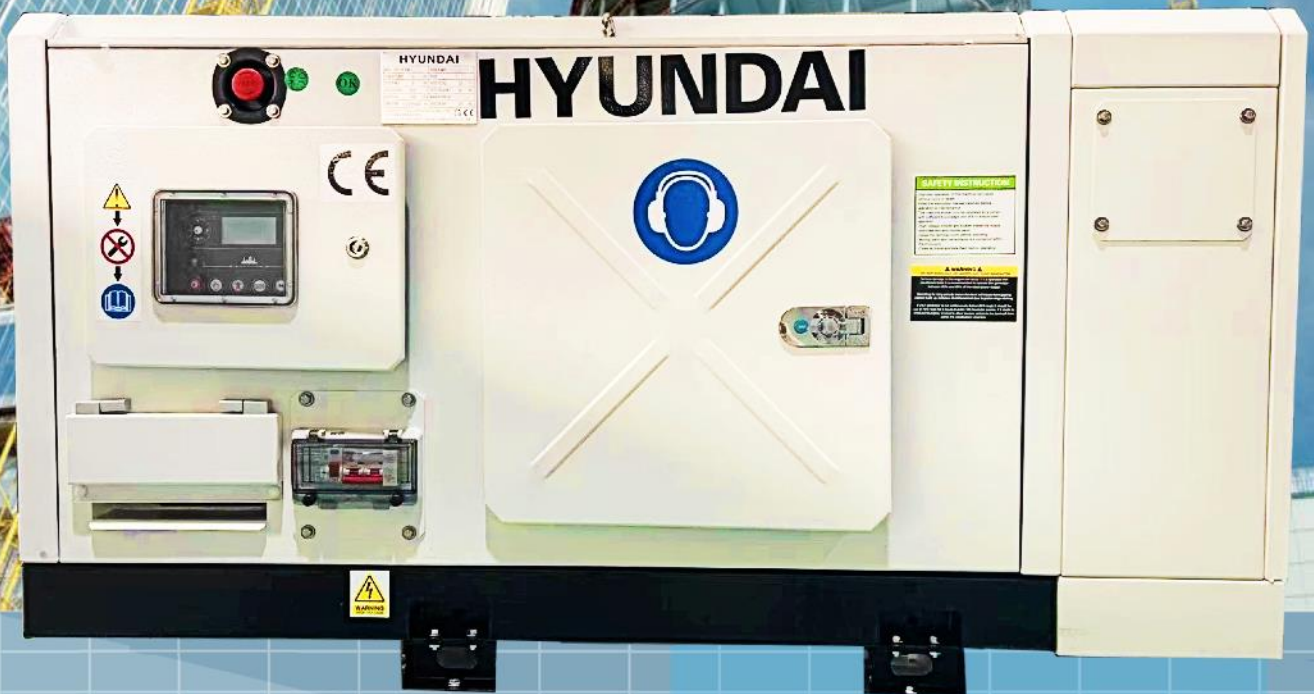
POWER EQUIPMENT

Standby Power 13.75KVA

1 Phase 1500 rpm

DHY13KSV

Diesel AC Generator



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY13KSV CANOPY TYPE – 1500rpm

50Hz
Standby 13.75KVA

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	12.5/ 12.5
Standby Power	KVA/KW	13.75/ 13.75
Power Factor		1.0
Frequency	Hz	50
Rate Voltage	V	220-230
Rate Current	A	56.8
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	3.5/4.5
Running Time (75%)	Hour	11
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	%	≤ 3
Volatility	%	≤ 0.5

Frequency

Steady state regulation	%	$\leq \pm 1$
Dynamic frequency renewal	%	$\leq +10 \sim -7$
Stable time	Sec	20-30
Volatility	%	≤ 0.5

Environment require

Temperature	°C	≤ 50
Humidity	%	≤ 90
Altitude	M	≤ 1000

Standard ISO 9001:2015, ISO 14001:2015

Dimension | Weight | Sound



DHY13KSV 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	67

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

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

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	LK164D	
Prime power	kVA	12.6
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

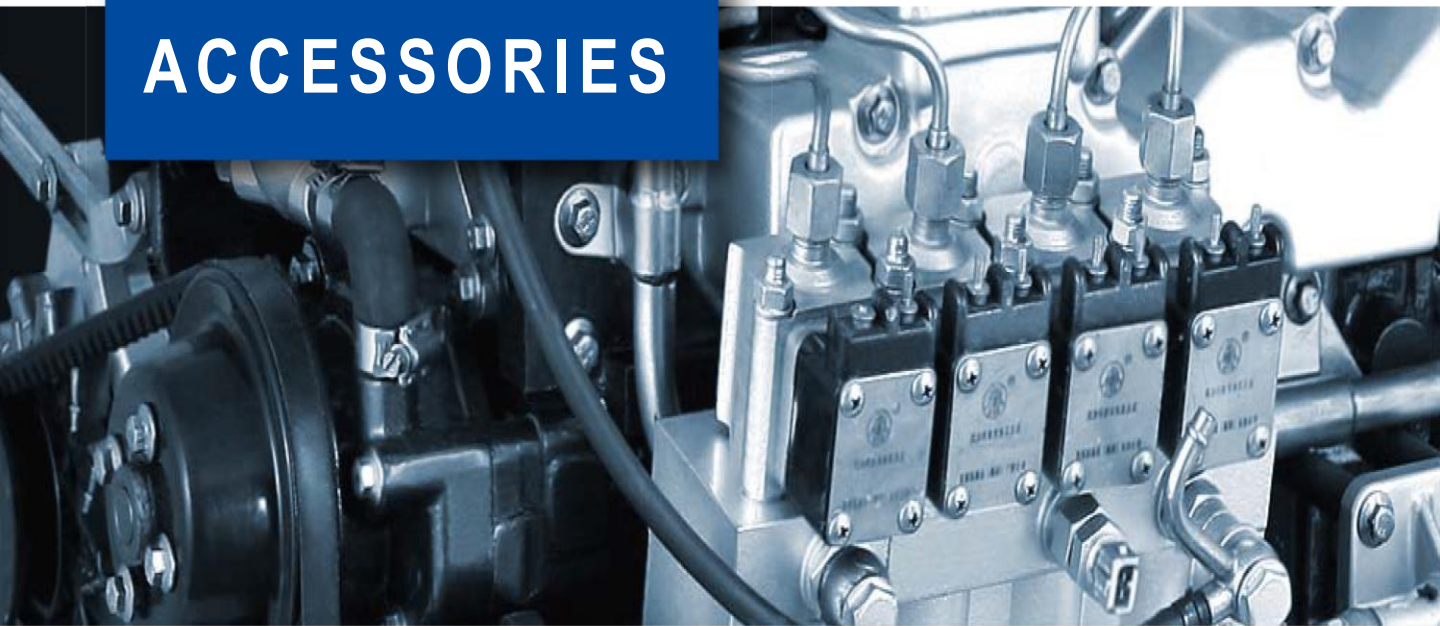


Datakom D300MK3 Test/Run/Auto/Stop functions, with function buttons, error warning LED, displaying machine operating status. Number of operating hours until maintenance. Display and analyze voltage in graph form.

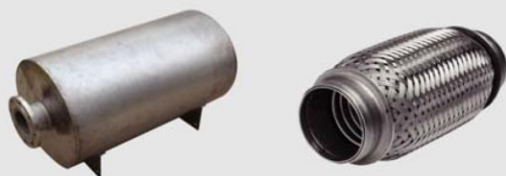
Measurement, displayment	D300MK3
Genset prime power Kw	●
Power factor	●
Engine speed	●
Phase to neutral voltage	●
Phase to phase voltage	●
Genset frequency	●
Genset current	●
Mains Phase to neutral voltage	○
Mains Phase to phase voltage	○
Mains frequency	○
Engine oil pressure	●
Engine water temperature	●
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, 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	×
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