

HYUNDAI

POWER EQUIPMENT

Diesel Generator
Standby Power 145KVA
3 Phase 1500 rpm

DHY145KSE



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY145KSE CANOPY TYPE

50Hz

Standby 145KVA

Benefits and Feature

- > Use best quality vehicle engine, low fuel consumption, running reliable
- > Use high quality and performance brushless alternator, with AVR
- > High quality controller of DEEPSEA
- > 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 72 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	125 / 100
Standby Power	KVA/ KW	145/ 116
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400 / 230
Rate Current	A	185
Controller	DEEPSEA DSE6120	
Control Voltage	DC / V	24
Phase	3 phases, 4 wires	
Coolant Capacity (Engine only)	L	6.8
Fuel Tank Capacity (Base frame)	L	232
Fuel Consumption (100% load)	L/hour	28.3
Running Time	Hour	8.2

Voltage

Steady state regulation	%	$\leq \pm 1$
Dynamic voltage renewal	%	$\leq +20 \sim -15$
Stable time	Sec	20
Waveform distortion	%	≤ 3
Volatility		≤ 0.5

Frequency

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

Environment require

Temperature	C	≤ 50
Humidity	%	≤ 90
Altitude	m	≤ 1000

Standard

ISO3046, ISO8528, ISO9001-2008

Dimension | Weight | Sound



DHY145KSE CANOPY TYPE

Length (L)	mm	2938
Weight (W)	mm	1000
Height (H)	mm	1690
Weight net	kg	1747
loading capacity (units/container)		
Sound @7 meter	db	72

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 responsiveness ability, and all protections

SDEC 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	4HTAA4.3-G22	
Prime power	Kw	120
Structure	4 cylinder	
Fuel type	Diesel	
Fuel consumption	L/Hour	28.3
Lubricant consumption	L/Hour	0.09
Governor	Electronic	
Coolling	Water-cooled	
Lubricant capacity	L	13
Air intake flow	m³/min	8.0
Exhaust gas flow	m³/min	19.1
Exhaust gas temperature	°C	600
Exhaust gas back pressure	KPa	10
Compression ratio	16:1	
Aspiration	Turbocharged	
Bore	mm	105
Stroke	mm	124
Displacement	L	4.3
Dimension	mm	1080*738*1078
Weight	Kg	450

BALANTY ALTERNATOR

A brand of HYUNDAI CORPORATION

Model	AL274E	
Prime power	kVA	140
Structure	1 bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m³/s	
Voltage regulation	AVR	



Best structure

Excellent design ensures compact structure and perfect appearance

Excellent performance

Excitation enhanced system improves start and short circuit's protection performance

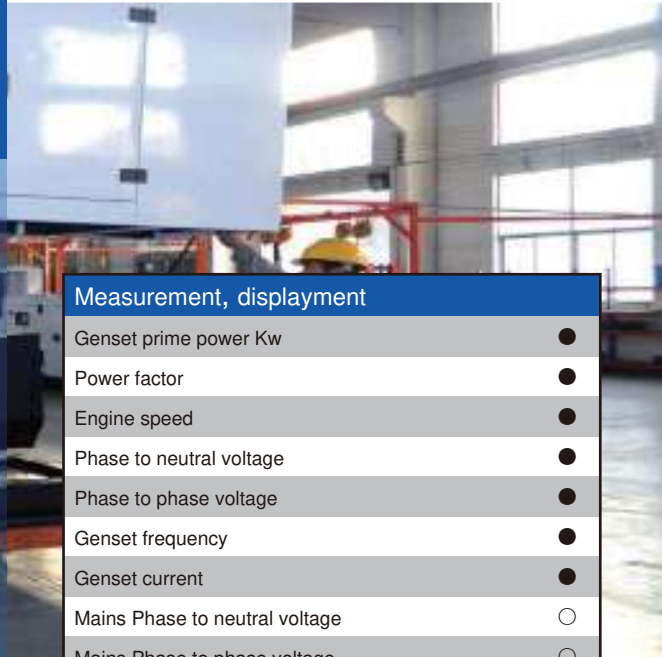
Economy

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



Deepsea DSE6120



DSE6110/20 MKIII
 AUTO START & AUTO MAINS (UTILITY)
 FAILURE CONTROL MODULES

Measurement, displayment

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

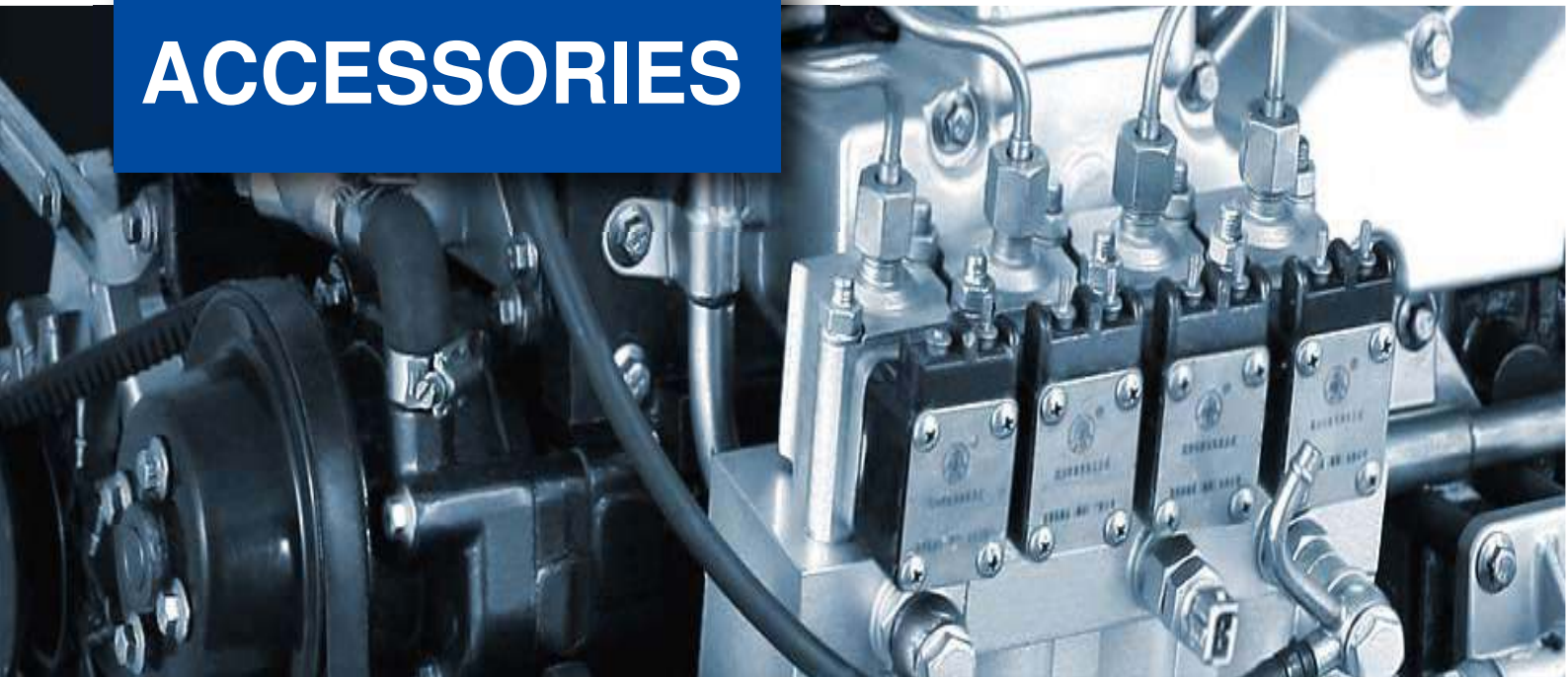
Low oil pressure warning, shutdown	●
High water temperature warning, shutdown	●
Engine over and under speed shutdown	●
Low fuel level warning, shutdown	●
Battery low and high voltage warning	●
Battery charging failure	●
Genset low and high voltage warning, shut down	●
Alternator 3 phase voltage unbalance 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	x
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



☐ Deepsea controller

☐ IC-NT
synchronizing
controller

☐ wireless remote starter

Maintenance spare parts



☐ 500 hours genset spare parts

☐ 1000 hours genset spare parts