

BALANTY NEW brand of

HYUNDAI
POWER PRODUCTS

Standby Power 500 KVA

3 Phase 1500 rpm

DHY500KSE

Diesel Generator



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY500KSE CANOPY TYPE

50Hz
Standby 500KVA

Benefits and Feature

- Use best HYUNDAI engine, low fuel consumption, running reliable
- High quality and performance brushless alternator, with AVR
- High quality controller of Deepsea
- With baseframe forklift hole and generator canopy lifting hole
- Industrial waterproof canopy, ensure generator all days running
- Easy operation, IP23 protection industrial sockets and plugs
- Four pole circuit breaker with RCD earth protection
- Block design electrical control system, easy operate and maintenance with circuit breaker protection.

Technical Specification

Prime Power	KVA/KW	455/ 364
Standby Power	KVA/KW	500/ 400
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	230/400
Control Voltage	DC/V	24
Controller	Deepsea DSE6120	
Coolant Capacity	L	20
Fuel Tank Capacity (Base frame)	L	> 8 hours of continuous running
Fuel Consumption (100% load)	L/H	99.6

Voltage

Steady regulation	%	$\leq \pm 1$
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Frequency

Steady regulation	%	$\leq \pm 1$
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Environment require

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

Standard ISO 9001:2015, 14001:2015, 45001:2018

Dimension | Weight | Sound



DHY500KSE CANOPY TYPE

Length (L)	mm	4350
Width (W)	mm	1600
Height (H)	mm	2260
Weight net	Kg	4270

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



HYUNDAI 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	DP158LC	
Prime /Standby Power	Kw	408/449
Structure	8 cylinders	
Fuel type	Diesel	
Injection nozzle	Multi hole	
Opening pressure	MPa	28
Governor	Electric	
Cooling	Water cooled	
Oil capacity	L	Max 22
Air intake flow	m ³ /min	28.1
Exhaust gas flow	m ³ /min	81
Exhaust gas temperature	°C	507
Exhaust gas back pressure	KPa	5.9
Compression ratio	15:1	
Aspiration	Turbo	
Bore	mm	128
Stroke	mm	142
Displacement	L	14.618

BALANTY ALTERNATOR

A brand of HYUNDAI CORPORATION

Model	HBKG360	
Power	kVA	450
Structure	1 bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
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

CONTROL PANEL



Controller

Deepsea DSE6120



The digital LCD controller, 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. There are operation modes: Start/stop, test, auto/manual, emergency button and indication light.

Control panel



Deepsea DSE6120

Measurement, displayment	DSE6120
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 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 × none