

# POWERED by HYUNDAI

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
- 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 generator all days running
- Industrial silencer (7 meters the noise is lower than 72dB)
- Easy operation, IP23 protection industrial sockets and plugs
- Four pole circuit breaker with RCD earth protection

## Technical Specification

Prime Power	KVA/KW	450/ 360
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	670
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	$\leq 40$
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Humidity	%	$\leq 60$
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Altitude	M	$\leq 1000$
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Standard ISO 9001:2015,  
ISO 14001

## Dimension | Weight | Sound



### DHY500KSE CANOPY TYPE

Length (L)	mm	4350
Width (W)	mm	1600
Height (H)	mm	2260
Weight net	Kg	4270
Loading capacity (unit/container)		
Sound @7 meter	dB	75±5

## 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

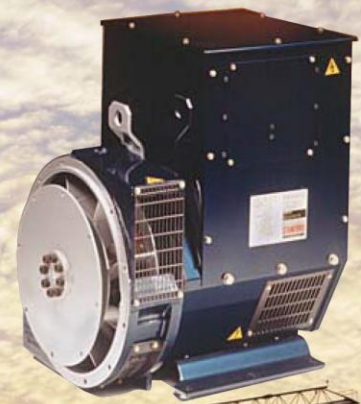
**Low maintenance and repair cost**  
Air, fuel and oil tubes are silicone and stainless steel materials, which reduce leakage problems substantially and changeable.

**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 <sup>3</sup> /min	28.1
Exhaust gas flow	m <sup>3</sup> /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

## LEROY SOMER ALTERNATOR

Model	TAL-A473-B	
Prime/Standby power	kVA	455/500
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



## 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

## 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