

HYUNDAI

POWER EQUIPMENT

HYUNDAI ENGINE
Standby Power 420 KVA

DHY420KE
DHY420 KSE
Diesel Generator



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY420KE OPEN TYPE / DHY420KSE CANOPY TYPE

50Hz

Benefits and Feature

- > Use HYUNDAI engine, low fuel consumption, running reliable
- > HYUNDAI high quality and performance brushless alternator, with AVR
- > High quality controller of COMAP iL-NT MRS10
- > 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 70 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	383/306
Standby Power	KVA / KW	421/337
Power Factor		0.8
Frequency	Hz	50
Rate Voltage	V	400/230
Rate Current	A	541.3
Controller	IL-NT MRS10	
Control Voltage	DC / V	DC24
Battery Capacity	Ah	240
Coolant Capacity	L	50
Fuel Tank Capacity(Base frame)	L	600
Fuel Consumption	L / hour	85
Running Time	Hour	8

Voltage

Steady state regulation	%	$\leq \pm 0.5$
Dynamic voltage renewal	%	$\leq +20 \sim -15$
Stable time	Sec	2.0
Waveform distortion	%	≤ 3
Volatility	%	≤ 0.5

Frequency

Steady state regulation	%	$\leq \pm 1$
Dynamic frequency renewal	%	$\leq +10 \sim -7$
Stable time	Sec	≤ 3
Volatility	%	≤ 0.5

Environment require

Temperature	C	≤ 40
Humidity	%	≤ 60
Altitude	m	≤ 1000

Standard

ISO3046、ISO8528

Dimension | Weight | Sound



DHY415KE OPEN TYPE

Length	mm
Width (W)	mm
Height (H)	mm
Weight net	Kg
loading capacity (units/container)	
Sound @7 meter	dB



DHY415KSE CANOPY TYPE

Length	mm	4150
Width (W)	mm	1350
Height (H)	mm	2190
Weight net	Kg	3013
loading capacity (units/container)		
Sound @7 meter	dB	

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 of the responsiveness ability, and all protections

DIESEL ENGINE



1,Advanced design and precise manufacturing ensure low fuel consumption.

2,Strong power and perfect low speed performance.

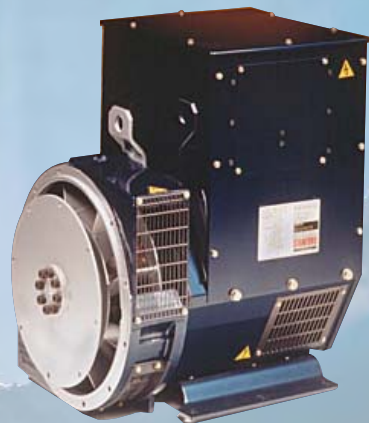
3,Excellent start performance,Reliable running quality,less spare parts involved provides easy maintenance and repair job.

4,Fuel injector and pump were tested fully in Various environments,which provide excellent

Model	HY1015-LD	
Prime power	Kw	328
Structure	6 cylinders,V-type	
Fuel type	Diesel	
Fuel consumption	L/Hour	85
Lubricant consumption	L/Hour	0.4
Governor	Electrical	
Cooling	Water	
Lubricant capacity	L	38
Air intake flow	m ³ /s	24
Exhaust gas flow	m ³ /s	50
Exhaust gas temperature	°C	550
Exhaust gas back pressure	KPa	5
Compression ratio	17	
Aspiration	Turbocharging	
Bore	mm	132
Stroke	145	
Displacement	L	11.906
SAE	1/14.0	
Dimension	mm	985 x 932 x 1174
Net weight	Kg	850

ALTERNATOR

Model	AL444F	
Prime power	kVA	500
Structure	1 Bearing	
Excitation mode	Self-excitation	
Insulation class	H	
Protection class	IP23	
TIF	<50	
THF	<2%	
Air flow	m ³ /s	0.8
AVR Model	AS440	



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



Controller Comap IntelLite 9



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.

Control panel



Comap IntelLite 9

ATS connector

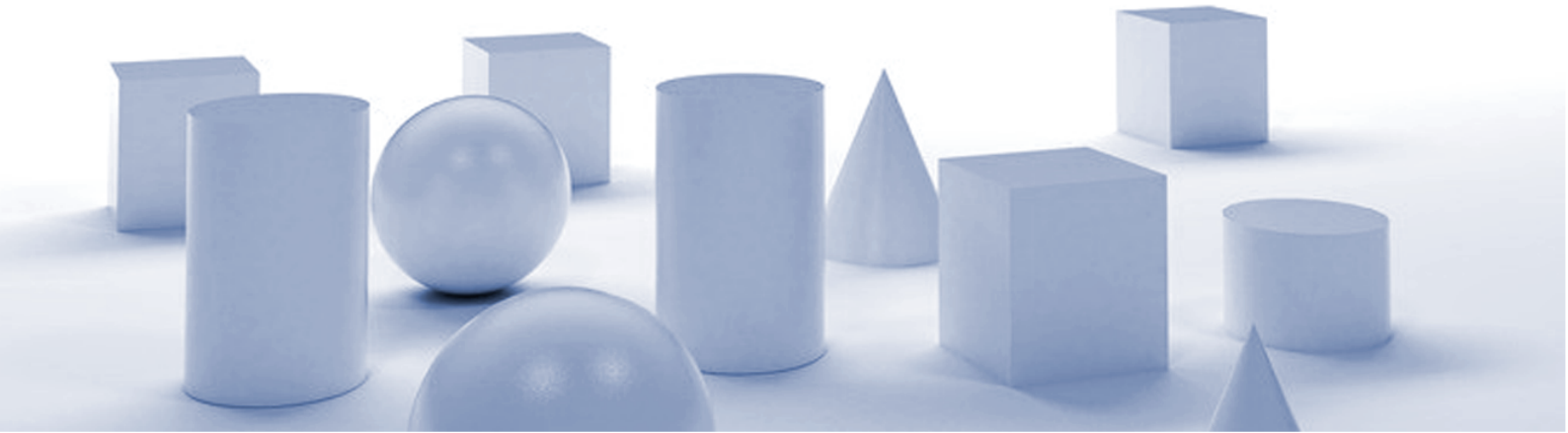
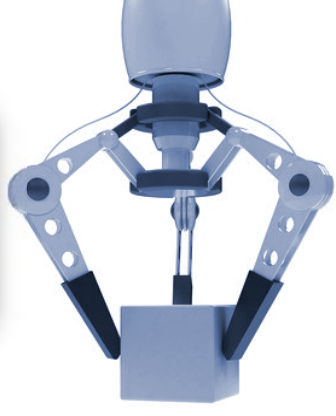
24 pin
Heavy duty connector

Power switch

Measurement, displayment	IntelLite 9
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	○
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