



All Days | Safty | Reliable | Stability



TECHNICAL SPECIFICATION

DHY22KSEM CANOPY TYPE

Benefits and Feature

- > Use best quality vehicle, low fuel consumption, running reliable
- High quality and performance brushless alternator, selfexcited, with AVR
- Use Chint circuit beaker 1 phase 2 poles overload protection, short circuit projection, with RCD earth protection
- Steel fuel tank integrated in the machine frame and noisereducing enclosure
- > 12 hours of continuous power at 100% load capacity
- **Technical Specification**

Prime Power	KVA/KW	20/ 20
Standby Power	KVA/KW	22/ 22
Power Factor		1.0
Frequency	Hz	50
Rate Voltage	V	220-230
Rate Current	A	90.9
Controller		Datakom
Control Voltage	DC/V	12
Phase, Wire		1 phase, 2 wires
Coolant Capacity	L	5.15
Fuel Tank Capacity (Base frame)	L	45
Fuel Consumption (100%/75%)	L/hour	9.0/6.75
Speed	Rpm	1500±1.5%

- Silent canopy with electrostatic powder coating, suitable for outdoor installation
- The engine and alternator are connect by a coaxial coupling mechanism with a vibration damping system
- Running 24/24 at 75% continuous power with only 30 minutes break every 12 hours
- Easy operation, IP23 protection industrial sockets and plugs

Voltage

vollage		
Steady state regulation (0-100% load)	%	≤ ± 0.5
Dynamic voltage renewal	%	≤ +20 ~ -15
Stable time	Sec	2.0
Wave form distortion	%	≤ 3
Volatility	%	≤ 0.5
Frequency		
Steady state regulation	%	≤ ± 1
Dynamic frequency renewal	%	≤ +10 ~ -7
Stable time	Sec	≤ 3
Volatility	%	≤ 0.5
Environment require		
Temperature	°C	≤ 50
Humidity	%	≤ 90

Dimension | Weight | Sound



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Length (L)	mm	1800
Width (W)	mm	740
Height (H)	mm	825
Weight net	Kg	625
Loading capacity (unit/cont	ainer)	
Sound @7 meter (75% load)	dB	68

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

Powerful engine and reliable running quality Durable running performance and was proofed by vehicle's application

Compact structure and metal materials saving for low cost

ow maintenance and repa 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

DIESEL ENGINE

	Model		HY4DW92 (4 strokes)
	Prime/Standby Power	Kw	26/28.6
	Structure	4 c	ylinders, in line
	Fuel type/Injection		Diesel/Direct
	Fuel consumption	L/hour	9.0
	Lubricant consumption	L/Hour	0.05
	Governor		Electronic
	Cooling system	Water cooled with	fan, extra tank
	Lubricant capacity	and the second second	8
	Compression ratio	A CONTRACTOR	18.5:1
	Air intake	A 4 5	Nature
-	Displacement		2.545
	Starting system	12VDC starte	er motor inside
)	Starting battery	I G	60Ah, sealed
	Starting motor	kW	3.0
	Battery charger power	А	35
	Filter system	Air/Fuel/Oil filter a	nd replaceable
	Oil system	Oil pump, oil	filter, filter bowl
	Engine sensor system	Oil pr	essure sensor,
		coolant temp	erature sensor,
		fu	lel level sensor

Best structure

Economy

and perfect appearance

Excellent design ensures compact structure

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

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

ALTERNATOR

Model	184FL	Insulation class	Н
Prime power	20KVA	Protection class	IP23
Standby power	22KVA	Power factor	1.0
Voltage	220-230V	Structure	1 bearing
Phase 1 p	hase, 2 wires	Self-excitation, b	rushless
Frequency	50Hz	Over speed	2250 rpm
AVR model	SX460	Cooling:	Direct fan
Efficiency @100%	6 prime power	K.	88.1%

Note: Generator continuous running at variable load for

unlimited periods with 10% overload available for 1 hour

CONTROL PANEL

Digital Controller

	DATAKOM	D 500
STATUS	GEN PHESS LOL TREES L1 0-2 0 L2 0-3 0 L3 0-1 0	

- The DATAKOM D-500MK3 digital controller, made in Turkey, features a 128x64 LCD display with full display functions (accuracy $\pm 5\%$), warnings, protections, and an automatic power supply lock.
- Operates via keys on the control panel or the start-up key lock when the control panel encounters a fault.
- Automatically starts generator when the battery voltage of the BTS station falls below the allowed limit to supply power for the battery charging of the BTS station.

Datakom D-500MK3

- The controller has buttons: Stop/Start/Auto/Manual/C/O/Set/Up-Down
- LED status display: Operation/Stop/Auto/C/O/Manual/Warning
- Connect with the ATS system to control the on/off operation of the generator without grid power or for remote forced control. Control and display the switching of 2 ATS
- Support engine and alternator monitoring, measurement and protection
- Support Modbus RS485,USB and internet for remote mornitoring.
- Operating temperature: -25°C 70°C
- Continuous power voltage: 8-35V
- Protection level: ≥ IP65



Smart Battery Charger SBC-5A 12/24V auto select 90-305 VAC

Technology: Switchmode, flyback 65 kHz Output current (lo): 5 ADC max.(continuous) Input frequency range: 45-68 Hz Cooling: natural convection Protection degree (EN60529): IP30 Enclosure material: Flame-retardant PC, UL94-V0 Overload protection: limits output current to 5A Short circuit protection: limits output current to 5A Short circuit duration: unlimited High temp. protection: limits internal temp. to 85°C

Measurement, displayment	
Genset prime power kW, kVAr, kVA, kWh	•
Power factor	•
Engine speed	•
Genset voltage	•
Percentage of load (%)	•
Main Voltage	•
Genset current	•
Phase sequence	•
Number of genset start	•
Genset /Main frequency	•
Engine oil pressure	•
Engine water temperature	\bullet
Fuel level	•
Battery voltage/ Battery charger voltage	•
Genset light	
Emergency stop button	•
Genset running time	•
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, shutdown	•
Battery charging failure	•
Genset low and high voltage warning, shutdown	•
Genset low and high frequency warning, shutdown	•
Alternator low and high frequency warning, shutdowr	
Genset overload, overcurrent warning, shutdown	•
Emergency stop button close	•
Short circuit: warning, shutdown	•
Mains low and high frequency warning	•
Features	
Remote start and stop	•
RS232 port	• ×
USB port	\bullet
RS485 port	•
Multi language display	0
GPRS communication	• 0 0
GPS communication	0

● standard ○ optional × none



Exhaust system	Preheating system
□ Residential muffler □ Exhaust gas pipe	□ Water preheater □ Oil preheater □ Alternator Anti-condensation heater
Fuel system	
Auto filling fuel pump	000L base frame fuel tank S00L External fuel tank 1000L External fuel tank
Electrical system	Maintenance spare parts
IC-NT AMF20 controller	□ 500 hours genset spare parts □ 1000 hours genset spare parts