HYUNDAI
POWER EQUIPMENT

Diesel Generator

Standby Power 18 KVA

1 Phase 1500rpm

DHY18KEm
DHY18KSEm

All Days I Safty I Reliable I Stability

TECHNICAL SPECIFICATION

DHY18KEm OPEN TYPE / DHY18KSEm CANOPY TYPE

50Hz
Standby 18KVA

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 COMAP
> 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 68 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	16 / 16
Standby Power	KVA/ KW	17.6/17.6
Power Factor		1
Frequency	Hz	50
Rate Voltage	V	230
Rate Current	A	71
Controller		COMAP AMF20
Control Voltage	DC / V	12
Battery Capacity	Ah	60
Coolant Capacity	L	8.6
Fuel Tank Capacity(Base frame)	L	85
Fuel Consumption	L/hour	6.94
Running Time	Hour	12

Voltage

Steady state regulation	%	≤ ± 0.5
Dynamic voltage renewal	%	≤+20~−15
Stable time	Sec	2.0
Waveform 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	≤40
Humidity	%	≤60
Altitude	m	≤1000

Standard

ISO3046、ISO8528、 ISO9001−2008

Dimension I Weight I Sound

DHY18KEm OPEN TYPE

Length	mm	1950
Width（W）	mm	850
Height（H）	mm	1080
Weight net	Kg	550
loading capacity (units/container)		
Sound @7 meter	dB	92

DHY18KSEm CANOPY TYPE

Length	mm	2130
Width（W）	mm	930
Height（H）	mm	1300
Weight net	Kg	835
loading capacity (units/container)		
Sound @7 meter	dB	68

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

DIESEL ENGINE

Powerful engine and reliable running quality
Durable running performace 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 perfomance
Fuel injector and pump were tested fully in Various environments,which provide excellent start and running preformance

Model		HY490D
Prime power	Kw	24
Structure		4 cylinder,inline
Fuel type		Diesel
Fuel consumption	L/Hour	6.94
Lubricant consumption	L/Hour	0.032
Governor		Mechanical
Coolling		Water
Lubricant capacity	L	7.5
Air intake flow	m^3/min	1.49
Exhaust gas flow	m^3/min	3.86
Exhaust gas temperature	℃	500
Exhaust gas back pressure	KPa	6
Compression ratio		18
Aspiration		Natural
Bore	mm	95
Stroke		105
Displacement	L	2.67
SAE		4/7.5
Dimension	mm	737 × 530 × 682
Net weight	Kg	230

ALTERNATOR

Model		184G20
Prime power	kVA	18
Structure		1bearing
Excitation mode		Self–excitation
Insulation class		H
Protection class		IP23
TIF		<50
THF		<2%
Air flow	m^3/s	0.095
AVR Model		SX460

Best structure
Excellent design ensures compact structure and perfect appearance

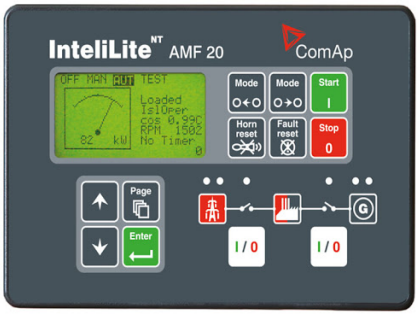
Excellent performance
Excitation enhanced system improves start and short circuit's protection performance

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 AMF20



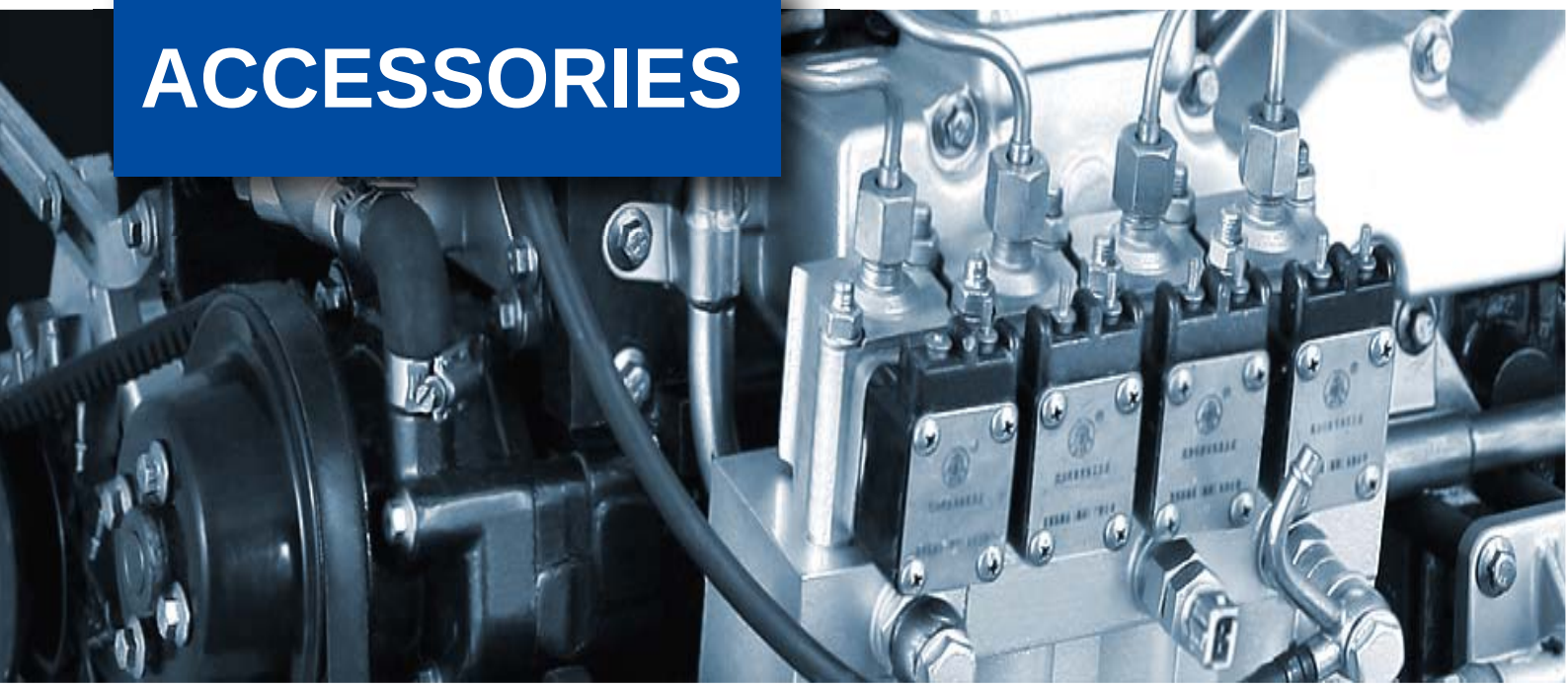
Support engine and alterantor monitoring，measurement and protection.This is long–running and back–up unit to integrate the best way to control。support Modbus standard，modem，RS485、USB and internet。

Control panel

Measurement, displayment	AMF20
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 chargering 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	●
Alternator3 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 × None

ACCESSORIES



Exhaust system

☐ Residential muffler ☐ Exhaust gas pipe

preheating system

☐Water preheater ☐Oil preheater ☐alterantor Anti–condensation heater

Fuel system

☐Auto filling fuel pump ☐Manual filling fuel pump ☐500L base frame fuel tank ☐1000L base frame fuel tank ☐500LExternal fuel tank ☐1000LExternal 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