

50Hz Standby 18KVA DG18KEm DG18KSEm Diesel Generator

All Days | Safty | Reliable | Stability

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TECHNICAL SPECIFICATION

DG18KEM OPEN TYPE / DG18KSEM CANOPY TYPE

50Hz Standby 18KVA

Benefits and Feature

- > Use Chinese best quality vehicle engine, low fuel consumption, running reliable
- > ITCPower 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 , IP66 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	18 / 18
Power Factor		1
Frequency	Hz	50
Rate Voltage	V	230
Rate Current	А	69.6
Controller		IL-NT MRS10
Control Voltage	DC / V	12
Battery Capacity	Ah	60
Coolant Capacity	L	10.2
Fuel Tank Capacity(Base frame)	L	77.5
Fuel Consumption	L / hour	6.2
Running Time	Hour	12.5

Voltage

Tonago		
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		

Dimension | Weight | Sound



DG18KEM OPEN TYPE

Length	mm	1510
Width (W)	mm	900
Height (H)	mm	980
Weight net	Kg	505
loading capacity (units/contained	r)	
Sound @7 meter	dB	



DG18KSEM CANOPY TYPE

Length	mm	1900
Width (W)	mm	900
Height (H)	mm	1120
Weight net	Kg	786
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

	Model		D490
	Prime power	Kw	22
	Structure		4 cylinder, inline
	Fuel type		Diesel
	Fuel consumption	L/Hour	6.2
	Lubricant consumption	L/Hour	0.0315
	Governor		Mechanical
	Coolling	-	Water
-	Lubricant capacity	L	6
	Air intake flow	m ³ /min	2.3
	Exhaust gas flow	m ³ /min	6.5
12%	Exhaust gas temperature	°C	400
	Exhaust gas back pressure	KPa	5
9)	Compression ratio	-	17.5
	Aspiration	/	Natural
	Bore	mm	90
	Stroke		100
	Displacement	L	2.5
	SAE		4/7.5
	Dimension	mm	760×543×680
	Net weight	Kg	230

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 problems substantially reduce leakage

Excellent start perfomance

Fuel injector and pump were tested fully in Various environments, which provide excellent start and running preformance

ALTERNATOR

N	lodel		184E
P	rime power	kVA	16.6
S	tructure		1 Bearing
E	xcitation mode		Self-excitation
In	sulation class	MER HAN	Н
P	rotection class		IP23
T	E.	-	<50
T	HE	and a	<2%
А	ir flow	m³/s	0.095
A	VR Model	R -	SX460
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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



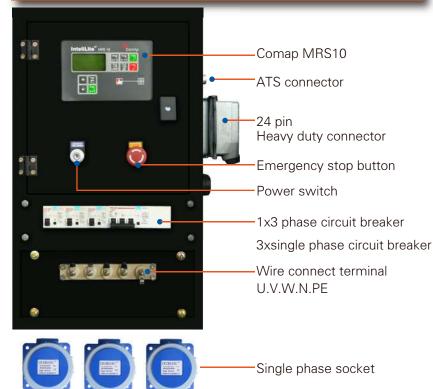
Controller



Comap MRS10

Support engine and alterantor monitoring, measurement and protection. This is long–running and back–up unit to integrate the best way to control_o support Modbus standard, modem, RS232 RS485_ USB and internet_o

Control panel



Measurement, displayment MRS	S10
Genset prime power Kw	•
Power factor	٠
engine speed	•
Phase to neutral voltage	٠
Phase to phase voltage	•
Genset frequency	٠
Genset current	•
Mains Phase to neutral voltage	×
Mains Phase to phase voltage	×
Mains frequency	×
engine oil pressure	
engine water temperature	٠
fuel level	
battery voltage	٠
genset power KVA	
Genset running time	٠
Genset output KWh	×
History file	×
Alarm, shutdown function	
Low oil pressure warning,shutdown	٠
High water temperature warning,shutdown	
Engine over and under speed shutdown	٠
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	٠
Genset over load shutdown	
Alternator3 phase current unbalance shutdown	٠
Mains low and high voltage warning	×
Mains low and high frequency warning	×
Optional	
Remote start and stop	٠
RS232 card	0
USB card	0
RS485 card	0
Multi language display	0
GPRS communication	0
GPS communication	×
●standard ○optional ×	None



IC−NT □AMF20 controller □ synchronizing controller

ing □wireless remote sta

ts □1000 hours genset s