

Republic of Yemen

Yemen Mobile
Technical Management



الجمهورية اليمنية

يمن موبايل
الإدارة الفنية

Schedule Of The Required Specifications			
1- Genset Specifications [General]			
Yemen Mobile Specifications		Offer Spesification	Notes
General Specifications	Model:		
	Manufacturer		
	Country of origin		
	Date of Manufacturing		
	Prime Power (PRP) at 1500 rpm: 10kVA		
	Rated at site conditions: (2200 A.S.L& 30 C) 10kVA		
	Voltage 400/230V AC		
	3ph - 4 Wires , 0.8 PF, 50HZ		
Site Conditions	Altitude :up to 2200m A.S.L		
	Ambient Temp.: 30C		
	Humidity : up to 90%		
Other	Dimension with canopy : L*W*H (Cm)		
	Weight with canopy (Kg)		
	dB(A) Value: 70 dB @ 1 meters		

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Schedule Of The Required Specifications

2- Engine Specifications

Yemen Mobile Specifications		Offer Spesification	Notes
Basic /Initial Specifications	Model		
	Manufacturer		
	Country of origin		
	Standard		
	Date of Manufacturing		
	Prime Power (PRP) at rated speed kW elec.		
	Rated at site conditions:(2200 A.S.L& 30 C)		
	Number of stroke:		
	Number of cylinder:		
	In-line arrangement		
	Rotation: CCW		
	Aspiration Mode :		
Fuel System	Injection Pump		
	Fuel lift pump		
	Replaceable filter		
	Separate Preliminary Filter		
	Electric Fuel Solenoid (Energize)		
	Fuel Consumption (Lt/hr)	At 100% Load At 75% Load At 50% Load	
Cooling System.	Water cooled with fan and radiator		
Injection System	Type		
Governing System	Type :Mechanical		
	Speed drop & steady state <4%		
Starting System	Type: Electric(starter motor)		
	Battery Voltage 12VDC ; Ah		
	Starter Motor:	Model:	
		kW&A:	
		Manufacturer	

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Schedule Of The Required Specifications			
Engine Specifications			
Yemen Mobile Specifications		Offer Spesification	Notes
Exhaust System	High standard: stainless steel		
	Volume Exhaust gas flow (m3/h)		
Dynamo charger	Type:		
	A/DC; V/DC:		
	Manufacturer:		
Engin Temp. sensor	Type:VDO or Equivalent		
	Manufacturer:		
Oil Pressure Sensor	Type:VDO or Equivalent		
	Manufacturer:		
Air filter	Dry type		
Engine (Protection)	High Temp. protection (A+ SD)		
	Low oil press. Protect (A+ SD)		
	Low water level (A+ SD)		
	Coolant Temp. protect (SD)		

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Schedule Of The Required Specifications

3- Alternator Specifications

Yemen Mobile Specifications		Offer Spesification	Notes
Basic /Initial Specifications	Model		
	Manfuturer		
	Country of origin		
	Date of Manufacturing		
	Standard		
	Rated kVA at 0.8 PF (kVA)		
	Rated at site conditions: (2200 A.S.L& 30C)		
	3Ph - 4 Wires+PE		
	Y -connected 400/230V AC		
	Self-regulated		
	Insulation Class: H		
	Enclosure Level IP:		
	Overload Ch-x :300%Pn for 10sec.110%Pn for 1hr/12hr		
	Efficiency % at 0.8 PF	At 100% Load At 75% Load At 50% Load	
	Bearing		
Excitation System.	Exciter Type :Brushless		
	With PMG/self excited		
Automatic voltage regulator (AVR)	Model		
	Type : Electronic		
	Regulation :(<±1%)		
	Range of output voltage (+5%) for PF(0.8-1)		

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Schedule Of The Required Specifications

4- Generator Control Panel Specifications

Yemen Mobile Specifications			Offer Spesification	Notes
Panel and Card Description	Panel	Model		
		Manfuturer		
	Card	Model		
		Manfuturer		
		Type: Electronic		
	Country of origin	Country of origin		
	Dimension [L×H×W]cm			
Panel Keys Card	Operation Modes Selection	Auto (Mode)		
		Manual (Mode)		
		Test (Mode)		
		Off(Mode)		
Digital Instrumentations (measuring & display)	Gen 3Ph voltage (VL-N)			
	Gen 3 Line voltage (VL-L)			
	Gens 3Ph current (IL)			
	Gen Frequency (Hz)			
	Gen Run hours (counter)			
	Battery Voltage VDC			
	Battery DC Current A			
	Oil Pressure gauge (Kpa)			
	Engine Temp. gauge (°C)			
	kVA, kW/phase and total, kWh and Power factor.			
Number Of Start Attempts				

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Schedule Of The Required Specifications
Generator Control Panel Specifications

Yemen Mobile Specifications		Offer Spesification	Notes
Panel Led Indicators & alarms Lights	Gen Normal Running (LED)		
	Fail to start (Led+ Alarm+SD)		
	High engine Temp. (A+ SD)		
	Low oil pressure (A+SD)		
	Battery charge Fail (LED)		
	Over - Speed (A+Shutdown)		
	Under - Speed (A+Shutdown)		
	Overload (A+Shutdown)		
	Belt fail(rupture) (Shutdown)		
	Frequency fail		
	Dynamo charge fail		
	Gen output voltage missing /failure		
	Weak battery (A)		
	Fail to crank (SD)		
	Overcrank (SD)		
	Emergency Stop (SD)		
	Over Current (A+SD)		
	Low water level. (W)		
	Genset fail		
Alarm Retransm.	Genset Run (free Contact)		
	Genset Fail (free Contact)		
Protective Devices & functions	Gen-set output circuit breaker 4 poles (MCB), Isc=10kA		
	4pole ,surge protection device kA		
	Suitable MCBs to protect all (DC/AC)circuits		
	U/O voltage protection (A+SD)		
	Phase sequence/missing protection		