

柴油发电机组技术参数 Diesel Generating Set Technical Specification



OPEN TYPE



SILENT TYPE

制造商 Manufacturer	山东华力机电有限公司 SHANDONG HUALI ELECTROMECHANICAL CO.,LTD		机组型号 Genset Model	HL40GF	
频率 Frequency	转速 Speed	电压 Voltage	功率 Power	千瓦 KW	千伏安 KVA
50Hz	1500 rpm	400V	备用功率 Standby Power	44	55
50Hz	1500 rpm	400V	主用功率 Prime Power	40	50
机 组 尺 寸、重 量 Genset Dimensions and Weights		开 放 型 OPEN STYLE	尺 寸 Overall Size L×W×H, mm	1910*720*1170	
			净 重, Weight (net) kg	830	
		静 音 型 SOUNDPROOF STYLE	尺 寸 Overall Size L×W×H, mm	2820*1140*1710	
			净 重, Weight(net) kg	1600	
Voltage regulation (电压整定范围):				≥ ±5%	
Voltage Regulation, Stead State (稳定电压调整率):				≤ ±1%	
Sudden Voltage Warp (100% Sudden Reduce) (瞬态电压偏差 (100%突减功率)):				≤ +25%	
Sudden voltage Warp(Sudden Increase) (瞬态电压偏差 (突加功率)):				≤ -20%	
Voltage Stable Time (100% Sudden Reduce) (电压稳定时间 (100%突减功率)):				≤ 6S	
Voltage Stable Time(Sudden Increase) (电压稳定时间 (突加功率)):				≤ 6S	
Frequency Regulation, Stead State (稳态频率调整率):				≤ 5%	
Frequency Waving (频率波动率):				≤ 1.5%	
Sudden Frequency Warp (100%Sudden Reduce) (瞬态频率偏差 (100%突减功率)):				≤ +12%	
Sudden Frequency Warp (Sudden Increase) (瞬态频率偏差 (突加功率)):				≤ -10%	
Frequency Recovery Time (100%Sudden Reduce) (频率恢复时间 (100%突减功率)):				≤ 5S	
Frequency Recovery Time (Sudden Increase) (频率恢复时间 (突减功率)):				≤ 5S	

发 动 机 参 数 DIESEL ENGINE SPECIFICATION

制造商 Manufacturer	DCEC CUMMINS 东风康明斯	发动机型号 Engine Model	4BTA3.9-G2
常用功率 Base Output Power (kW)	50	备用功率 Standby Power (kW)	55
发动机转速 Engine speed (rpm)	1500	排量 Displacement, total (L)	3.9
缸数 Number of cylinders	4	循环周期 cycle	四冲程 4-cycle
缸径*行程 Bore*Stroke(mm)	102*120	压缩比 Compression ratio	17.5:1
怠速 Low idle (rpm)	900± 50	扭矩 Torque (Nm)	435
活塞速度 Piston speed (m/s)	7.2	净重 Engine weight,dry (kg)	350
进气方式 Air intake way	涡轮增压 Turbo	进气流量 Air intake flow (L/sec)	57
排气温度 Exhaust temperature (°C)	485	最大排气流量 Exhaust flow (L/sec)	155

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参数更改不再另行通知

冷却液容积 Coolant capacity-engine only (L)	7.9	冷却液流量 Engine coolant flow (L/sec)	2.0
润滑系统最小容量 Lubrication system Min. capacity (L)	10.9	最大油底壳机油温度 Max. oil temperature permitted in oil pan (°C)	121
起动机电压 Start Motor Voltage (V)	24		
燃油泵系统类型 Fuel injection pump model	BYC A 型直列泵 BYC A pump with RSV governor		
燃油消耗 CONSUMPTION (L/h)	备用功率 Standby power	14.7	100%功率 100% prime power 13.1
	75% 功率 75% prime power	9.8	50% 功率 50% prime power 6.7
	25% 功率 25% prime power	3.8	

发电机参数 ALTERNATOR SPECIFICATION

制造商 Manufacturer	无锡斯坦福 WUXI STAMFORD	发电机型号 Alternator Model	S1L2-Y1
频率 Frequency	50 HZ	额定转速 Rated Speed (RPM)	1500
电压调节 Voltage Regulation	±5%	额定电压 Prime Voltage (V)	400
相数 Number of Phase	3	海拔要求 Altitude	≤1000m
功率因数 Power Factor	0.8	防护等级 Protection Grade	IP23
接线方式 Connecting Type	3 Phase and 4 Wires 三相四线	励磁方式 Exciter Type	Brush less,self-exciting 无刷自励磁
绝缘等级 Insulation Class	H	温升等级 Temperature Rise	H
电话影响系数 TIF	<50	电话谐波系数 THF	<2%

控制系统 CONTROL SYSTEM

工作环境: (Work environment)

工作温度 Operating temperature : -20℃~60℃ 相对湿度 Relative Humidity : 95%

工作电压 Operating voltage : DC24V (范围 range : 18-30V, 耐压 pressure : 50V/5 mm)

开架式 Open Type		静音型 Silent Type	
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模块描述 Description

标准功能 Standard functions	停机 Shutdown	报警 Warning
发动机控制 Engine Control 发电机组监测 Generator Monitoring 机组保护 Generator Protection 发动机监测 Engine Monitoring 测试显示清理 Clear Text Display	降速显示 Loss of Speed Signal 发电机欠压/过压 Alternator Under / Over Voltage 发电机低频/超频 Alternator Under/ Over Frequency 市电欠压/过压 Mains Under / Over Voltage 市电低频/超频 Mains Under/ Over Frequency 低速/超速 Under / Over Speed 低油压 Low Oil Pressure 发动机高温 High Engine Temperature 电子相序(可选) Phase Sequence Electrical (Option) 接地故障 (可选) Earth Fault (Option)	发电机欠压/过压 Alternator Under / Over Voltage 发电机低频/超频 Alternator Under/ Over Frequency 市电欠压/过压 Mains Under / Over Voltage 市电低频/超频 Mains Under/ Over Frequency 低速/超速 Under / Over Speed 低油压预警 Low Oil Pressure Pre-Alarm 发动机高温预警 High Engine Temperature Pre-Alarm 电池电压过高/过低 High/Low Battery Voltage 过流 Over-current 定期维护 Periodic maintenance

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