

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			1900x800x1200
				净 重, Weight (net) kg			700
		静 音 型 SOUNDPROOF STYLE		尺 寸 Overall Size L×W×H, mm			2250x1100x1620
				净 重, Weight(net) kg			1540
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	

Specifications may change without notice

参数更改不再另行通知



山东华力机电有限公司
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发 动 机 DIESEL ENGINE							
发动机型号 Engine Model		1103A-33TG2					
制造商 Manufacturer		PERKINS ENGINE COMPANY LIMITED (India Factory) 铂金斯动力有限公司					
发 动 机 功 率 数 据 ENGINE POWER DATA							
发动机转速 Engine speed (rpm)	工作状态 Type of Operation	发电输出功率		发动机功率 Engine Power			
		Typical Generator Output (Net)		Gross 毛功率		Net 净功率	
		kVA	kW	kW	bhp	kW	bhp
1500	常用 Primer Power	60.0	48.0	55.0	73.8	53.8	72.1
	备用 Standby Power	66.0	52.8	60.5	81.1	59.3	79.5
1800	常用 Primer Power	68.1	54.5	63.3	84.9	61.2	82.1
	备用 Standby Power	75.1	60.1	69.6	93.3	67.5	90.5
基 础 数 据 ENGINE SPECIFICATIONS							
缸数 Number of cylinders		3		气缸排列 Cylinder arrangement		立式直列 Vertical in-line	
循环周期 cycle		4 冲程 4-cycle		进气方式 Aspiration		涡轮增压Turbocharged	
燃烧方式 Combustion system		直接喷射 Direct injection		缸径 Bore(mm)		105	
冲程 Stroke (mm)		127		压缩比 Compression ratio		17.25:1	
排量 Displacement, total (L)		3.3		冷却方式 Cooling system		水冷 Water cooled	
冷却液总容量 Total coolant capacity		10.2L		润滑油总容量Total Lubrication (L)		7.9	
净重 Engine weight,dry (kg)		420					
燃 油 消 耗 CONSUMPTION							
		1500rpm			1800rpm		
工作状态 Type of Operation		UK g/hr		L/hr		UK g/hr L/hr	
备用功率 Standby power		3.3		15.4		4.0 18.2	
常用功率 prime power		3.0		13.9		3.2 16.6	
75% 常用功率 75% prime power		2.2		10.4		2.7 12.5	
50% 常用功率 50% prime power		1.5		7.2		1.9 8.8	

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	UCI224D14
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

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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	
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	