

AZN-140Kva/23Kw飞机地面电源机组（交流/直流）

AZN-140kVA/23Kw Ground power unit-AC/DC



技术参数

Technical parameter

序号	系统配置 System configuration features	交流（AC）	直流（DC）
1	容量 Capacity	140KVA（三相四线3-phase 4-wire）；	23KW
2	额定电压Rated Voltage	115V/200V±2V	28.5V
3	输出接线方式Utput Connection	A、B、C、N	二线制 2-line
4	输出模式Output Mode	双路 2-Way 单独控制 Separate control	单路 1-Way
5	电压调节范围 Voltage Regulation Range	100V~125V	20~32V
6	稳压电压范围 Stable Voltage Range	113V~117V	28.5V±0.5%
7	额定频率 Rated Frequency	400Hz	/
8	额定电流 Rated Current	406A	800A
9	额定功率因素(cosΦ)Rated Power Factor	0.8(lag) ~1	/
10	瞬态电压范围Transitent-state Voltage	90V~140V	17~35V
11	电压反应时间Voltage Response Time	<0.1s	<0.1s
12	稳态频率范围Steady-statw Frequency	400Hz±0.1%	/
13	瞬态频率范围ransitent-state Frequency	370Hz~420Hz	/
14	频率稳定时间Frequency Response Time	≤1s	/
15	电压调制量Voltage Modulation	≤1.5%	/
16	频率调制量 Frequency Modulation	≤2Hz	/

17	峰值系数 Crest Factor	1.31~1.51	/
18	总谐波含量 Total Harmonic Content	≤3%	/
19	脉动幅值 Fluctuating Amplitude	/	≤1.5V
20	纹波电压 Ripple Voltage	/	≤0.5%(rms)
21	畸变系数 Distortion Coefficient	≤0.04	≤0.035
22	三相电压波形相位差Waveform Phase	120° ±1.5°	/
23	相电压不平衡Phase Voltage Imbalance	≤3V	/
24	过载性能 Overload Rating	120% 10s; 150% 2s	850A-5min、1200A-1min、1500A-30S、2000A-5S
25	连续工作时间 Continuous Working Time	≥8h (Fuel tank 300L)	
26	线压降补偿 Line voltage drop compensation	输出电缆线压降自动补偿 Output cable voltage drop automatic compensation function	
27	平均无故障时间 Mean Time BetweenFailure	MTBF≥1000h	
28	平均修复时间 Mean Time To Repair	MTTR≤30min	
29	使用寿命 Service Life	≥10年 (Year)	
30	环境温度 Environment Temperature	-40℃~+40℃	
	相对湿度 Relative Humidity	<100% (+25℃)	
31	保护功能 Protection Function		
	交流输出过、欠压保护 AC Output Over-voltage or Under-voltage		
	交流输出过、欠频保护 AC Output Over- frequency or Under- frequency		
	交流输出错相、缺相保护AC output phase error and phase loss protection		
	交流过载保护 AC Output Overload protection		
	直流输出过、欠压保护 DC Output Over-voltage or Under-voltage		
	直流过载保护 DC Output Overload protection		
	内部过热等保护 Internal Overheating And So On		
	水温高保护 Water Temperature Is High		
	柴油机机油压力低保护 Diesel Engine Oil Pressure Low		
	柴油机燃油位低保护 Diesel engine fuel level low protection		
	柴油机超转速保护 Diesel engine overspeed protection		
	紧急停止按钮：设置手动紧急停机按钮 Emergency stop button: set manual emergency stop button		

32	工作噪声 Working Noise	<85dB (A)
33	显示 Display	OLED屏 (OLED screen)
34	显示精度 Display Accuracy	±1%FS (FS:满量程 FS:full range)
35	控制显示系统Control display system	OLED数字显示屏：显示发动机和发电机参数、油位、输出电压、电流、频率、运行参数和状态，及输出控制、启动开关、故障灯、电气系统保护、故障信号显示、存储和故障历史查询。累计工作时间小时。 OLED digital display screen: displays engine and generator parameters, oil level, output voltage, current, frequency, operating parameters and status, as well as output control, start switch, fault light, electrical system protection, fault signal display, storage, and fault history query. Accumulated working hours hours.
36	额定转速 Rated Speed	1846(rpm)
37	冷却方式 Cooling	水冷+风冷 (Water+Air)
38	底盘 Chassis Choose	拖曳式 (Towed) 充气轮胎。 两轴拖车，旋转牵引杆（前轴），驻车制动器。配备牵引杆，联挂环内径100毫米。能够将载具从垂直位置移动到路面水平。 Inflatable tires. Two axle trailer, rotating tow bar (front axle), parking brake. Equipped with a tow bar and a coupling ring with an inner diameter of 100 millimeters. Capable of moving the vehicle from a vertical position to a horizontal position on the road surface
39	柴油发动机Diesel Engine	康明斯 (Cummins)
	型号Model	6CTA8.3-G2
	额定功率Rated power	170kw
	转速The rated speed	1846r/min
	类型Style	6缸四冲程 6cylinders, array, four stroke

	进气方式Air inlet	涡轮增压，水冷中冷turbocharged, Intercooled
	耗油率Specific fuel consumption	≤219g/kW·h
	排量Displacement	8.3L
	启动方式Starting way	24V电起动 24V electric start
	发动机类型Engine type	柴油Diesel
40	发电机Generator	中频发电机Intermediate frequency generator
	中频发电机输出115V/400Hz交流电；再通过降压整流模块输出一路28.5V直流电 Intermediate frequency generator outputs 115V/400Hz AC; Then output a circuit of 28.5V DC through the step-down rectifier module.	
	型号Model	FSLW
	额定功率Rated power	140KVA 400Hz AC
	转速The rated speed	1846r/min
	额定功率因素(cosΦ)Rated Power Factor	0.8(lag)
	输出形式Output form	三相四线Three-phase four-wire
	连接方式Connection method	自冷单轴承Self cooling single bearing
41	控制方式Control mode	无刷、自励同步 Brushless, Self-excited synchronization
	外形尺寸(长×宽×高) (mm) Dimension (L×W×H)	3100×2000×1900
	总质量 (kg) Total Mass	≤3300
	整车颜色 Vehicle color	白色White
	最高车速 (Km/h) Max. speed	15~20km/h
45	输出电缆配置The output cable	
	1根28.5VDC输出电缆（10m），电缆120mm ² ×2，插头型号PJ-500T； 2根115VAC输出电缆（10m），电缆70mm ² ×4，插头型号PJ-500TB。 One 28.5VDC output cable (32.8 feet long), cable 120mm ² × 2, plug model PJ-500T; Two 115VAC output cables (32.8 feet long), cable 70mm ² × 4, plug model PJ-500TB.	
46	其他配置 Other configurations	
	电缆收纳箱Cable storage box	
	燃油滤清器加热（220V）Fuel filter heating (220V)	
	发动机冷却液加热（220V）Engine coolant heating (220V)	
	顶部旋转闪烁警示灯（橙色）Top rotating flashing warning light (Orange)	
	2公斤灭火器及灭火器安装支架-1个。	

2kg fire extinguisher and fire extinguisher installation bracket -1 piece.

备件：保险丝-1套，按钮、指示灯-1套。

Spare parts: Fuses -1 set, Buttons and Indicator lights -1 set.

