

 All New Semi	文档编号 Document number	版本 version
	VIE_WPT_VEN01	V1.0
	文档名称 The name of the document	页数 Number of pages
	低压无线充电系统规格书 Specification for low-voltage wireless charging system	共 4 页 Total 4Pages

# 低压无线充电系统规格书

Specification for low-voltage wireless charging system

系统组成 System g	分类 classify	参数要求 Parameter requirements	参数 parameter	备注 remark	
<b>系统 system</b>	工作原理 How it work	拓扑及线圈类 Topology and coil type	双边 LCC+圆形线圈 Bilateral LCC + r		
	主要性能指标 Key performance indicators	输入功率等级 Enter the power level		3.2KW	
		额定工作点效率/% Rated operating point efficiency/%		≥91%	
		标称工作频率/kHz Nominal operating frequency/kHz		85.5kHz	
		板板距离/mm Plate distance / mm		60~100mm	
		不超过规定偏移时效率/% Efficiency not exceeding the specified offset/%		≥85%	
	位置容忍度 Location tolerance	可容忍的前后 X 向偏移量/mm Tolerable forward and backward X offset/mm		± 50mm	
		可容忍的左右 Y 向偏移量/mm Tolerable left and right Y offsets/mm		± 100mm	
		Roll-angle /°		± 5°	
		Pitch-angle /°		± 5°	
		Yaw-angle /°		± 10°	
	工作环境 Working environment	地面设备工作温度范围/°C Ground equipment operating temperature range/°C		-25~55°C	
		车载设备工作温度范围/°C On-board equipment operating temperature range/°C		-25~55°C	
		存储温度/°C Storage temperature/°C		-40~60°C	
		湿度范围/% Humidity Range/%		5%~95%	
		海拔高度/km Altitude/km		≤2km	
		噪音水平/dBA Noise level/dBA		<70dBA	
通信方式 Communication method	VA 与车辆通信方式 How the VA communicates with the vehicle		CAN2.0/CAN FD		
	GA 与车端通信方式 How GA communicates with the vehicle		Wi-Fi		
EMF 标准 EMF standards	EMF 标准 EMF standards		INCIRP1998		
<b>辅助系统 Assistance systems</b>	PD	近距离引导及对齐确认方式 Proximity guidance and alignment confirmation method	LPE 耦合判断 LPE coupling judgment		
		对齐精度 Alignment accuracy	<5%		
	LOD	视觉方案* Visual Solution*		客户定制 Customer-specific	

WB	主要性能指标 Key performance indicators	体积/mm Volume/mm	400mm×280mm×100mm	
		重量/kg Weight / kg	<8kg	
		防护等级 Ingress protection	整机 IP54 IP54 for the whole m	
		冷却方式 Cooling method	强制风冷 Forced air cooling	
		安装方式 Installation:	壁挂/立柱 Wall-mounted/column-	2
		额定输入电压/VAC Rated input voltage/VAC	220VAC	
		输入电压范围/VAC Input voltage range/VAC	额定电压 * (1±15%) VAC Rated voltage *(1±15%)VAC	

		输入频率/Hz Input frequency/Hz	47~53Hz	
		额定输入电流/A Rated input current/A	单相: 16A Single-phase: 16A	
		功率因素/% Power Factor/%	≥0.99@满载 ; ≥0.97@半载 ≥0.99@Full Load, ≥0.97@Half	
		输入电流总谐波失真 THD/% Total Harmonic Distortion	≤0.5%	
	安全保护功能 Security protection features	输入过压保护 Input overvoltage	具备 have	
		输入欠压保护 Input undervoltage	具备 have	
		输入过频保护 Input over-frequency protection	具备 have	
		输入欠频保护 Input under-frequency	具备 have	
GA	主要性能指标 Key performance indicators	体积/mm Volume/mm	500mm×380mm×20mm	
		重量/kg Weight / kg	<5kg	
		防护等级 Ingress protection	IP67	
		冷却方式 Cooling method	自然冷却 Natural cooling	
		安装方式 Installation:	竖直安装 Installed vertically	
		电缆长度/m Cable length/m	按照实际定义 As it actually is	
VA	主要性能指标 Key performance indicators	VA 体积/mm VA volume/mm	270mm×270mm×59mm	
		VA 重量/kg VA weight/kg	<6kg	
		防护等级 Ingress protection	IP68	
		冷却方式 Cooling method	风冷 Air-cooled	
		安装方式 Installation:	螺栓安装 Bolt mounting	
		输出高压接插件型号 Output high-voltage	客户需求定 Customer needs are determined	
		高压互锁检测 High-voltage interlock	无 not	
		低压接插件型号 Low-voltage connector	客户需求定 Customer needs are determined	
		低压唤醒 Low-voltage wake-up	CAN 唤醒 CAN wake up	
		UDS 功能 UDS function	满足 satisfy	

		Bootloader 功能 Bootloader function	满足 satisfy	
		恒压输出功能 Constant voltage output	满足 satisfy	
		恒压工作功能 Constant voltage working	满足 satisfy	
		额定输入低压电源 VDC Rated input low-voltage	12VDC	
		输入er低压su电源l范围/VDC Input low-voltage power	9~16VDC	
		低a压s最/大工作电流/A Low voltage maximum operating current/A	<1A	
		静态电流/mA Quiescent current/mA	<80uA	

	安全保护功能 Security protection features	高压输出电压/VDC High voltage output	40V-90V	
		输出电流/A Output current/A	≤60A	
		输出过压保护值 Output overvoltage	满足 satisfy	
		输出过流保护值 Security protection	满足 satisfy	
		掉载保护功能 Load loss protection function	满足 satisfy	
		过温保护功能 Over-temperature protection function	满足 satisfy	

<b>产品图片</b> <b>Product images</b>	<b>WB</b>	<b>GA</b>	<b>VA</b>
			