

Part Purple	TDS 技术参数表	DECRIPTION 分项	SPECIFICATIONS 明细
변수 시는 1. **	Input Characteristics		
### 2000 ### 1000			380Vac±15%
# 記念報			380Vac
### SPAIR ###		AC Input Frequency 额定频率	50Hz/60Hz
지수는 이 10mm Votage 1 200%는 1500%는 100%는			0.99
함께보는			Surge Protection 浪涌保护
製造性素			200Vdc-1000Vdc
### ### ### ### ### ### ### ### ### ##			60A
변화에도 Content Pype			60kW
보호도를 통해 보고 있는 이 Charging Ports Duck Commencions 灰皮 Overlaps (Prince) 보호도를 보호로 보호되다 등 Post (Prince) 기가			
B		Charging Connector Type 充电连接器类型	
변환 전체 Network Network (보音 기준 Network Network) 변화 기준 Network Network (보音 기준 Network Network) 변화 기준 Network Ne		No. of Charging Ports 接口数量	
H 掛京 电表 Safety Features		Charging Efficiency 充电效率	95%(full power output)
보는 보기 보이는 Interface and Interaction 用产界电与交互 Docky Type 显示规数 State Interface 表示规数 Rever、Conseque Support 电流 天电、规理 用户图器 Envergency Stop Available 是不可要ency Stop 和 Available 是不可能力 中央ののの 日本ののの 日本ののの 日本ののの 日本のの 日本ののの 日本のの 日本の 日本		Metering Method 计量方式	
開子祭与交互			Overvoltage/Under voltage, Overcurrent, Short circuits, or, Overheating Protection 过欠压保护, 过流保护,短路保护, 过热保护
Weight Audion Potentials Support Weight Methods (Americal Characteristics Age) Weight Methods (Americal Characteris		Display Type 显示类型	
用户外面音音			Power, Charging, Fault 电源. 充电. 故障
原金庫と 有		User Interface Language 用户界面语言	Multi- language Support 支持多语种
議合与连接性		Emergency Stop 緊急停止	
通信协议 Authentication (Activation)			4G/Standard RJ45 Interface
Environmental Characteristics A PM验证后的 Coparating Temperature Tr温度 Hunidity Range 温度范围 Working Altitude Tr作海拔 Working Altitude Tr作海拔 Peletric Stength 小电强度 Leakage Current and the Mechanical Characteristics Nikehth Mechanical Characteristics Nikehth Protection Rating Nibr等级 Cooling Method 冷却方式 Installation Type 安方式 Cable Length 线像张度 Dimensions R寸 Weight Dimensions R寸 Weight Weight Dimensions Row Certification and Compliance Vixes Uniternational Standard International S			OCPP1.6J
工作温度		Authentication (Activation) 身份验证(启动)	QR Code, APP / RFID card reading 扫码, 应用 / RFID单机刷卡版
湿皮范围 Working Altitude		Operating Temperature 工作温度	-20~50°C
Electrical Safety 电气安全 Dielectric Strength 介电观度 Leakage Current 測电流 Mechanical Characteristics 机械特性 Housing Material 外壳材料 Protection Rating 防护导级 Cooling Method 冷却方式 Installation Type 安表方式 Cable Length 线缆长度 Dimensions 尺寸 Weight 重量 Certification and Compliance 认证与合规 Electrical Safety Dimensions 和 Product: 800-630-1830mm Packing: 1140-940-2050mm EC61851-1/2017 Electrication and Compliance August		Humidity Range 湿度范围	5%-95%
### Product Sunsing Material #### Product Sunsing Material ####################################		Working Altitude 工作海拔	< 2000m
編电流 Mechanical Characteristics 机械特性 Housing Material 分売材料 Protection Rating 防护等級 Cooling Method 冷却方式 Installation Type 安装方式 Cable Length 线缆长度 Dimensions 尺寸 Weight 重量 Certification and Compliance 认证与合规 Response Advances International Standard 国际标准 CE Certification Ses			≥2000V
지 사 사 사 사 사 사 사 사 사 사 사 사 사 사 사 사 사 사 사			≤3.5mA
防护等級 Cooling Method 冷却方式 Air Cooling 尺冷 (Pound-Mounted 落地式 Sm (Sm (Pound-Mounted 落地式 Sm (Pound-Mounted 第地式 Sm (Pound-Mounted Pound-Mou	机械特性	Housing Material 外壳材料	
Product: 800+630*1830mm Product: 800+63			IP54
安装方式 落地式 Cable Length 线缆长度 5m Dimensions 尺寸 Product: 800+630+1830mm Packing: 1140-940-2050mm Weight 重量 <nw:335kgs <w:385kgs< td=""> Certification and Compliance 认证与合规 International Standard 国际标准 IEC61851-1/2017 CE Certification SGS</w:385kgs<></nw:335kgs 			Air Cooling 风冷
集機系接		Installation Type 安装方式	Ground-Mounted 落地式
尺寸 Packing: 1140-940-2050mm Weight 重量 <nw:335kgs <="" td=""> Certification and Compliance 认证与合规 IEC61851-1/2017 国际标准 CE Certification SGS</nw:335kgs>		Cable Length 线缆长度	5m
重量 <gw:385kgs 2017="" and="" ce="" certification="" compliance="" iec61851-1="" international="" sgs<="" standard="" td="" 以证与合規="" 国际标准=""><td></td><td></td></gw:385kgs>			
认证与合规 国际标准 SGS		Weight 重量	<nw:335kgs <gw:385kgs< td=""></gw:385kgs<></nw:335kgs
			IEC61851-1/2017
			SGS
ISO Standards ISO 标准 ISO9001:2015			ISO9001:2015
Warranty and Service Warranty Period 保修期 Typically 2 Years with remote support 常规2年远程质保		Warranty Period 保修期	Typically 2 Years with remote support 常规2年远程质保
Customer Support Sp. Online Chat support 线上支持		Customer Support 客户支持	Online Chat support 线上支持



1.2 Technical Characteristics and Overview

Our self-developed charging equipment follows international practices and adopts an intelligent, modular design concept. The entire charging control system consists of an AC distribution unit, a charging control unit, a human-machine interaction unit, a charging module unit, and a DC distribution unit. The system is configured with RS485, CAN interface, Ethernet, and PLC, and it uses a CCS2 standard charging connector suitable for the European region.

This product has the following features:

Advanced Constant Power Charging Module: The module maintains constant power within the range of 300-1000V, allowing the charger to provide high charging power even at lower voltages, delivering fast and powerful charging speeds.

- 2. Modular Structure Design: Multiple modules work in parallel, and faulty modules automatically exit, enhancing the user experience.
- 3. Distributed Control Monitoring Unit: This design maximizes risk control and improves the reliability and safety of the charging equipment. The user-friendly human-machine interface (available in both Chinese and English) allows for easy querying of charging orders and system parameter settings via touchscreen.
- 4. Advanced Flexible Intelligent Control Technology: Our proprietary technology intelligently allocates dual-port charging power, dynamically adjusting the charging process based on factors such as the charger, vehicle, environment, and user. This ensures the battery operates in its optimal state, extending the lifespan of the vehicle's battery pack while meeting the demand for quick charging in a short time.
- 5. Robust Internet Service Capabilities: The product can connect to the internet via GPRS/4G modules, enabling real-time data exchange with a backend management system platform. It supports the OCPP1.6 protocol, giving you an advantage in commercial operations.
- 6. Global Payment Capabilities: The charger can be equipped with a universal POS machine, supporting various global credit card payment channels such as UnionPay and VISA, solving payment issues for commercial charging stations abroad.



1.3 Function Introduction

Charging Method: During the charging process, the integrated charger dynamically adjusts charging parameters and executes corresponding actions based on data from the vehicle's Battery Management System (BMS), the charger's self-check parameters, and commands from the server, completing the charging process and automatically stopping when fully charged.

- 2. Metering Function: The charger includes an intelligent energy meter that measures the energy output of the DC charger. The meter is installed on the output side of the charger but can be adjusted to the input side upon the owner's request.
- 3. Billing Function: The system supports billing based on the amount of electricity charged. It can be configured with parameters such as rate periods, billing units, and pricing. The billing management module reads the energy meter data in real-time and calculates charges based on the energy consumption and the set unit price. The system supports a self-built non-contact IC card that stores user and account information. Additionally, it can be equipped with a POS machine for credit card payments.
- 4. Human-Machine Interaction Function: The user interface features a color LCD touchscreen with complete and rich information display, easy operation, and a user-friendly interface. It includes card swipe and emergency stop buttons. The interface displays charging current, charging voltage, charging time, charged energy, and alarms for errors during charging. Users can query personal and charging information or set personal information, such as password changes, at the charger terminal.
- 5. Display Function: The charger displays key information such as power status, charging status, fault status, charging voltage, charging current, charged energy, the highest and lowest voltages of vehicle battery cells, vehicle SOC (State of Charge), estimated remaining charging time, and fault and alarm messages. Under admin privileges, settings such as charger IP address, coding, maximum/minimum output voltage, and maximum output current can be configured, and factory settings can be queried. The display characters are clear and complete, visible without relying on ambient light.
- 6. Communication Function: The charger has a PLC interface for communication with the vehicle's Battery Management System (BMS), obtaining real-time charging parameters and data from the vehicle's battery system. It also supports communication with a higher-level monitoring system via GPRS wireless communication, Ethernet, and meets relevant encryption requirements.
- 7. Emergency Stop Function: The charger has an emergency stop function, allowing it to stop charging immediately through a manual switch or upper-level monitoring command.



- 8. Charging Monitoring Function: The charger monitors leakage current, insulation, and provides alarms in case of faults, with visual and audible alerts via LED indicators. The charger adjusts charging current, voltage, and charge curves based on battery temperature, voltage, and individual cell capacities.
- 9. Protection and Alarm Function: When there is a DC output overcurrent, the charger automatically cuts off the DC output and triggers an alarm. In case of a DC output short circuit, the charger enters a current limiting state. If the AC/DC conversion power unit overheats, the charger cuts off the DC output and triggers an alarm. The charger is equipped with surge protection and prevents battery current backflow.
- 10. Record and Storage Function: The monitoring system records alarms and events, storing historical charging and consumption information.
- 11. Emergency Power Off Handling: In emergencies like activating the emergency stop button, control guidance failure, or communication failure with the charging management system, the charger disconnects the DC output contactor within 100ms, and the output voltage drops to below 60V within 1 second.
- 12. Over-temperature Protection: The charger continuously monitors the temperature of the charging gun and charger body. If overheating is detected, it reduces power operation until charging stops.
- 13. Remote Upgrade Function: The charger can be remotely upgraded via the backend management platform.
- 14. Other Safety Considerations: The charger is equipped with a door access switch that triggers an alarm when the cabinet door is opened, preventing operations under live conditions.

