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INTEGRATED ENERGY STORAGE CHARGING PILE

Integrated energy storage and charging machines are mainly applied in scenarios such as highway service stations and urban public charging stations. They can be flexibly configured according to the power grid and user demands, reducing operational costs, improving the quality of electrical energy, and mitigating the impact of peak charging on the power grid.



Charging Station | Highway Service Area | Mobile Charger | Parking Lot | Industrial Park | Microgrid System | Off-grid System

Achieve Virtual Capacity Expansion

Mitigate The Impact On The Electrical Grid

Seamless Solar Energy Access



Reduce Operational Costs



Improve Power Quality



Improve Conversion Efficiency



Mitigate The Impact On The Electrical Grid



Seamless Solar Energy Access



V2G Technology Demonstration

PRODUCT SPECIFICATIONS

ESS Rated Charging/Discharging Power	40kW
Rated Voltage Range	200-1000VDC
Rated Current Range	Each Gun 0-250A
Single Gun Output Power Range	0-160kW
Rated Battery Capacity	93.18kWh (25°C)
Utility AC Voltage	400V±15% (Three-phase four-wire)
Utility AC Voltage Frequency	50±2.5Hz
Charging Mode	Charging: Constant Power/Constant Voltage/Constant Current Discharge: Grid-tied PQ Control/Islanded VF Control
Thermal Management Techniques	liquid cooling, PCS-air cooling, charging-module air cooling
Dimensions (W*D*H)	1475×1000×2100mm
Weight	800kg
Protection Grade	IP54
System Max. Efficiency	98% (Excluding Energy Storage Efficiency)
Voltage Error	≤±0.5%
Current Error	≤1%
Stabilized Voltage Precision	≤±0.5%
Stabilized Current Precision	≤1%
Power Factor	≥0.97
Insulation Resistance	≥50MΩ
Relative Humidity	5%~95%
Fire Protection Measures	Perfluoro (2-methyl-3-pentanone)

SOLUTION

