

ESS-ACDC-125-PED-SI

光储柴变流柜

Photovoltaic storage diesel converter cabinet

高效赋能 智享未来
High-efficiency empowerment for a smart future



安装灵活 / Flexible Installation

一体式设计, 支持肩靠肩安装
Integrated design, supporting shoulder to shoulder installation



数字化管理 / Digital Management

全生命周期数字化管理
Digital management throughout the entire life cycle



支持并联 / Supporting Parallel Connection

支持多机并联, 离网≤4台, 并网≤8台
Support multi-unit grid connection, with no more than 4 off-grid units and no more than 8 grid-connected units



使用安心 / Use with Peace of Mind

智能保护设计, 使用更安心
Intelligent protection design ensures more peace of mind during use



能量密度高 / High Energy Density

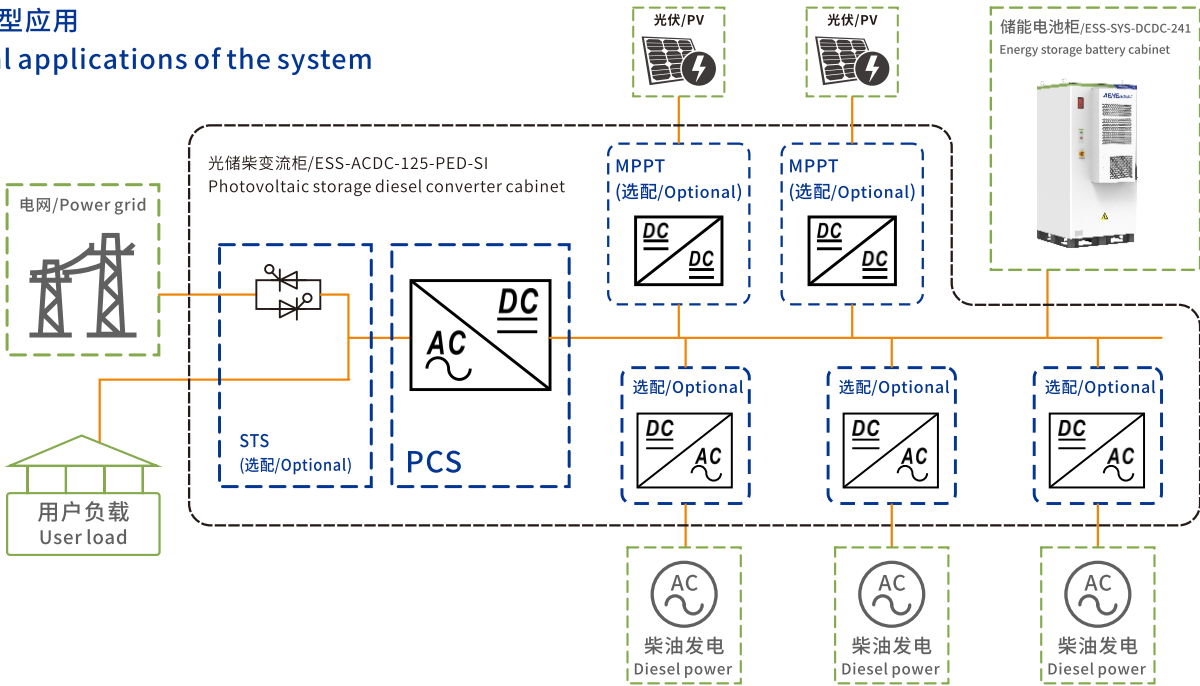
占地面积小
It occupies a small area



高效率 / High Efficiency

高效的PCS转化效率带来更高收益
High PCS conversion efficiency leads to higher profits

系统典型应用 Typical applications of the system



专为离网及混合能源场景设计的智能一体化变流系统, 深度融合光伏发电、储能电池、柴油发电机三大能源模块, 打造全天候稳定供电方案。采用国际标准设计, 支持多端口能量智能调度, 可实现光伏优先消纳、储能削峰填谷、柴发混合供电、储能备电等功能。柴油机适应性强, 宽电压宽频率接入范围。智能离网切换, 满足关键负载不间断供电需求。系统适用于工商业用户、大型村落、海岛、工厂等无电或弱电网地区的可靠供电。

The intelligent integrated converter system, specifically engineered for off-grid and hybrid energy applications, seamlessly integrates three core energy modules: photovoltaic power generation, energy storage batteries, and diesel generators. This integration delivers an all-weather stable power supply solution. Developed in compliance with international standards, the system supports multi-port intelligent energy dispatching and enables advanced functionalities such as prioritized consumption of photovoltaic power, peak shaving and valley filling through energy storage, hybrid power supply from multiple sources, and backup power support via energy storage. The diesel engine component exhibits robust adaptability and accommodates a wide range of voltage and frequency inputs. Intelligent off-grid switching ensures uninterrupted power supply for critical loads. The system is ideally suited for providing reliable power to industrial and commercial users, large villages, islands, factories, and other regions lacking electricity or characterized by weak grid infrastructure.

技术参数/Technical parameters	ESS-ACDC-125-PED-SI
交流 (并网) /AC (grid connection)	
视在功率/Apparent power	110kVA
额定功率/Rated power	100kW
额定电压/Rated voltage	400V
谐波电流/Harmonic current	<3%
电压范围/Voltage range	360V~440V
额定频率/Rated frequency	50/60Hz
THDi	<3%
功率因数/Power factor	0.9 before~0.9 after
交流制式/Alternating current format	3W+N+PE
交流 (离网) /AC (offline)	
电压范围/Voltage range	400V±5%
输出电流/Output current	152A
THDu	≤5%
额定频率/Rated frequency	50/60Hz
过载能力/Overload capacity	110% 10min / 120% 1min
直流输入 (电池接入) /Dc input (battery connection)	
额定电压范围/Rated voltage range	680V~900V
额定电流/Rated current	150A
其他参数/Other parameters	
噪音/Noise	≤75dB(A)@1m
工作温度/Working temperature	-20℃~+45℃
冷却方式/Cooling method	Intelligent air cooling
相对湿度/Relative humidity	95% (no condensation)
最高海拔/Highest altitude	2000m以上降频 more than 2000m capacity reduction
并离网切换/Online and offline switching	≤10ms(STS)

技术参数/Technical parameters	ESS-ACDC-125-PED-SI
柴发接入 / (选配) Diesel generator access (optional)	
交流输入电压范围/Ac input voltage range	260Vac~530Vac 3L+PE
输入电压频率范围/Input voltage frequency range	45Hz~65Hz
输入功率因数/Input power factor	≥0.99
效率 (满载) /Efficiency (full load)	>95%
输入/Input THD	<5%
ACDC功率/Power	40kW/80kW
推荐接入功率/Recommended access power	≥40kW/≥80kW
光伏接入 (选配) /Photovoltaic access (optional)	
最大光伏开路电压 Maximum photovoltaic open-circuit voltage	950VDC
光伏MPPT电压范围/PV MPPT voltage range	200V~900V DC
光伏MPPT数量 (可选) /Number of PV MPPT(optional)	1 or 4
光伏功率 (可选) /PV power (optional)	60kW / 120kW / 240kW
最大光伏组件功率 (参考) Maximum PV module power (reference)	1.1 to 1.4 times
STS (选配) /(optional)	
额定功率/Rated power	200kW
交流电压范围/Ac voltage range	400V/230V (-20%~15%)
频率范围/Frequency range	50Hz/60Hz (±5Hz)
最大交流功率/Maximum AC power	220kVA
最大交流电流/Maximum alternating current	330A
通信/Communication	
显示/Display	触控屏/Touch screen
通信接口/Communication interface	RS485/LAN
预留/Reserve	DO/DI

*产品不断创新, 参数请以最新产品规格书为准。



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