

C&I Energy Storage System

60k/120kWh

Diesel-PV-ESS



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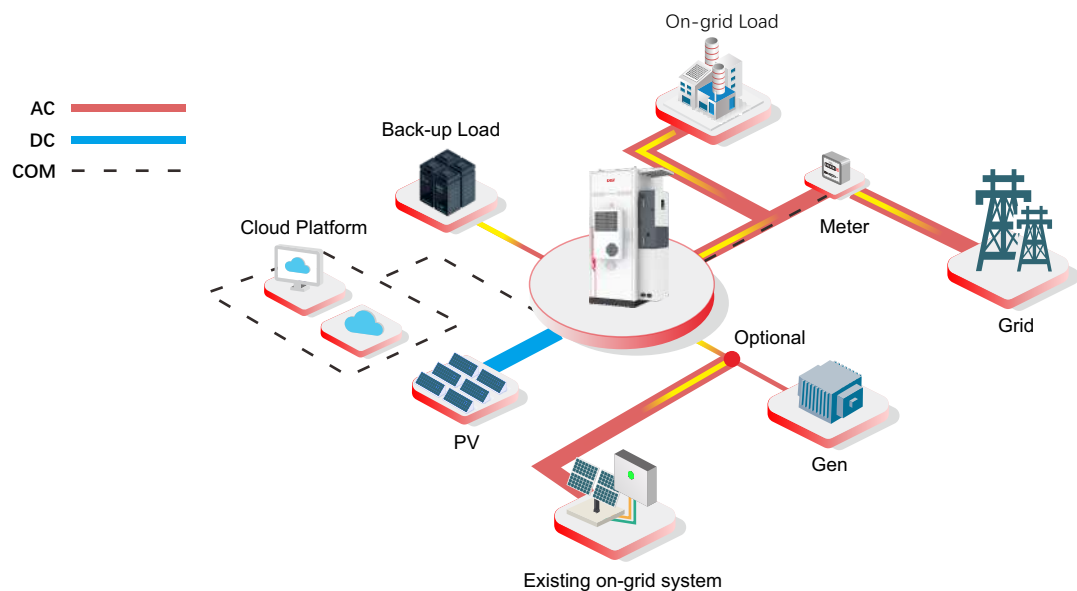
4 independent MPPT, wide 150~850V PV voltage range for higher yield
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Max. multi-path high current charge/discharge, compatible with genset, up to 8 units parallel
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<20ms UPS-level switching, AC coupling ready for system retrofit
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Full aluminum IP66 enclosure, stable operation under harsh environments

Typical application



Specification

MODEL	60kW-120kWh
System	
Rated energy capacity	120kWh
Rated system power	60kW
On-grid and off-grid switching time	<20ms
Max. conversion efficiency	98.00%
European/MPPT efficiency	97%/99.9%
IP rating	Battery cabinet(IP54), Inverter(IP66)
Operating temperature	-25~+60°C(>45°C linear derating to 60%)
Relative humidity	<95%(non-condensing)
Altitude	<4000m
Cooling method	Air cooling
Noise	<65dB
Fire protection system	cabinet level gas fire-fighting(perfluorohexanone)/aerosol+water fire-fighting
Wired/ wireless communication	RS485/WiFi/Bluetooth/LAN/CAN/DRM/Meter
Human-computer interaction	LED+APP
Standards	UL 1741-2021(UL1741SB), CSA C22.2 No 107.1-16, IEEE Std C37.90.2-2004, IEEE C62.45-2002, IEEE Std C62.41.2-2002, IEEE Std C37.90.1-2024, UL 1741-2021(UL1741SA), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020(SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP
Dimensions(W×H×D)(mm)	800x2100x1200
Weight(kg)	≤1300
Battery	
Cell	314Ah
Configuration	1P120S
Rated energy	120kWh
Rated voltage	384Vdc
Voltage range	336~438Vdc
Inverter	
Inverter model	ESH60K3PHVG1-US
PV parameters	
Max. input power	100kW
Max. input voltage	1000Vdc
Input voltage range	150~950V
Starting voltage	200Vdc
Max. input current per string	8x20A
Max. short-circuit current per string	8x30A
MPPT voltage range	150~850Vdc
MPPT quantity/ strings per MPPT	4/2+2+2+2
Grid parameters	
Rated input/output power	60kW
Voltage range	277/480V, 3L+N+PE
Rated input current	144.4A
Rated output current	72.2A
Power factor	>0.99(0.8 leading~0.8 lagging)
THDi	<3%@rated power
Diesel engine parameters	
Rated power	60kW
Voltage range	249~305V(L-N)/432~528V(L-L)
Rated current	72.2A
Backup parameters	
Rated power	60kW
Rated voltage	277/480V, 3L+N+PE
Rated frequency	50Hz/60Hz
Rated current	72.2A