

Hybrid Inverter

ESH70K3PHVG1-US

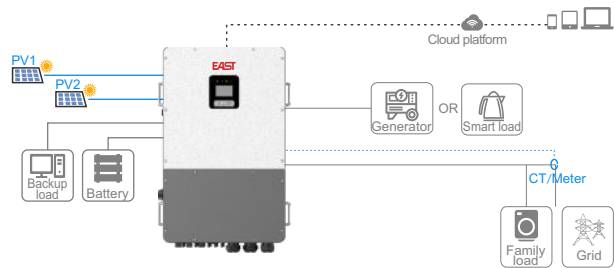
Three phase



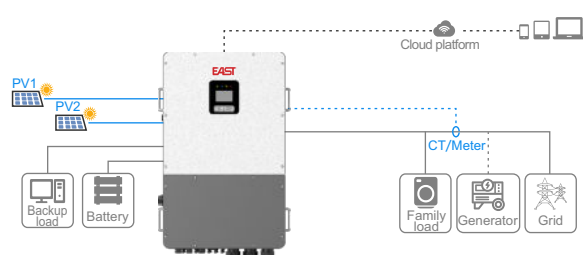
- 4 independent MPPT, wide 150~850V PV voltage range for higher yield
- <20ms UPS-level switching, AC coupling ready for system retrofit

- Max. multi-path high current charge/discharge, compatible with genset, up to 8 units parallel
- Full aluminum IP66 enclosure, stable operation under harsh environments

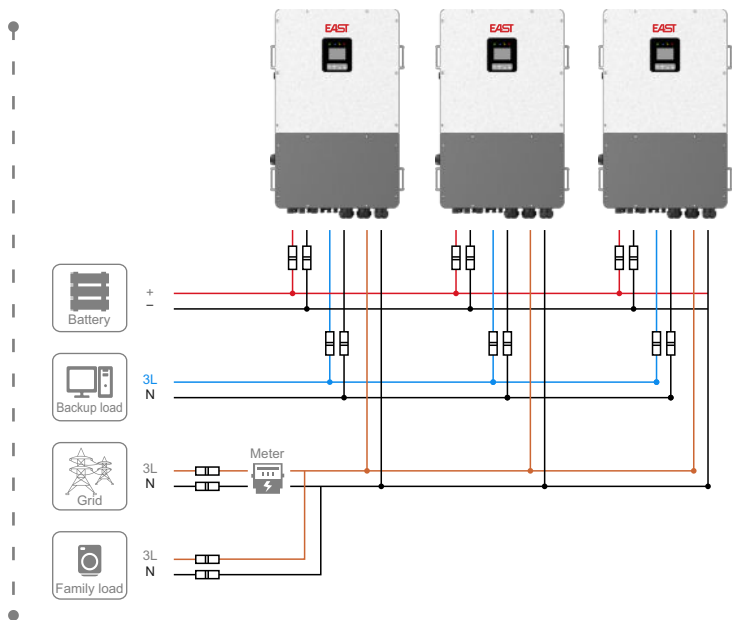
Typical application 1



Typical application 2



Parallel application



Specification

MODEL	ESH70K3PHVG1-US
PV input	
Max. input power	100kW
Max. input voltage	1000Vdc
Start-up voltage	200Vdc
MPPT voltage range	150~850V
Max. input current	8×20A
Max. short circuit current	8×30A
Number of MPPT/ max. number of PV strings	4/2+2+2+2
Battery input/output	
Battery voltage range	150~850V
Max. charge/ discharge current	100A
Max. charge/ discharge power	60kW
Battery BMS communication	CAN/RS485
AC output(EPS & Smart)	
Rated output power	70kW
Max. apparent output power	70kVA
Rated output current	84.3A
Rated output voltage/ frequency	277/480V, 3L+N+PE, 50/60Hz
Power factor	>0.99(0.8 leading~0.8 lagging)
THDi	<3%@rated power
EPS switching time	<20ms
Starting surge	30s@1.1×rated power/10s@1.2×rated power/0.2s@1.5×rated power
THDu	<3%(Linear load)
AC input(Grid & Smart)	
Max. AC charging power (grid to battery)	120kW
Max. grid input current	144.4A
Max. diesel generator input current	92.6A
Rated input voltage/ frequency	277/480V, 3L+N+PE, 50/60Hz
Efficiency	
Max. efficiency	98.0%
European efficiency	97.0%
MPPT efficiency	99.9%
General parameters	
Display	LED+APP
Communications	RS485/WiFi/Bluetooth/LAN/CAN/DRM/Meter
IP rating	IP66
Operating temperature	-25~+60°C(>45°C linear derating to 60%)
Humidity	0~95%(non-condensing)
Cooling mode	Intelligent Air Cooling
Noise level	<65 dB
Dimensions(W×H×D)(mm)	544×880×278
Net weight(kg)	88