

Hybrid Inverter

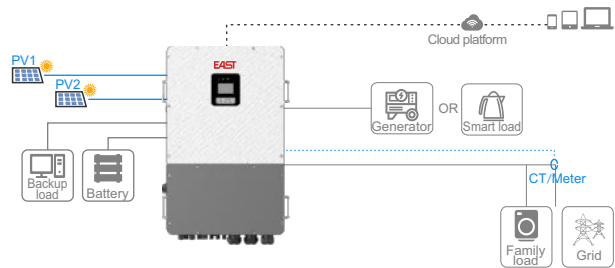
ESH30K/40K/50K/60K3PHVG1-EU

Three phase

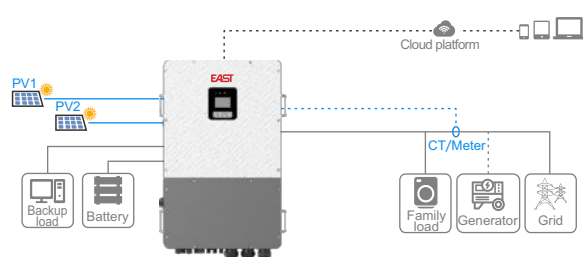


- Built-in high precision MPPT controller, wide PV voltage operating range to maximize solar energy capture efficiency
- Supports high voltage lithium battery series connection, allowing multiple battery clusters parallel expansion for flexible energy capacity configuration
- Ultra fast EPS transfer time less than 20ms, guaranteeing uninterrupted power supply for critical loads
- Multiple protection functions integrated, adapting to harsh outdoor operating environments for long-term stable operation

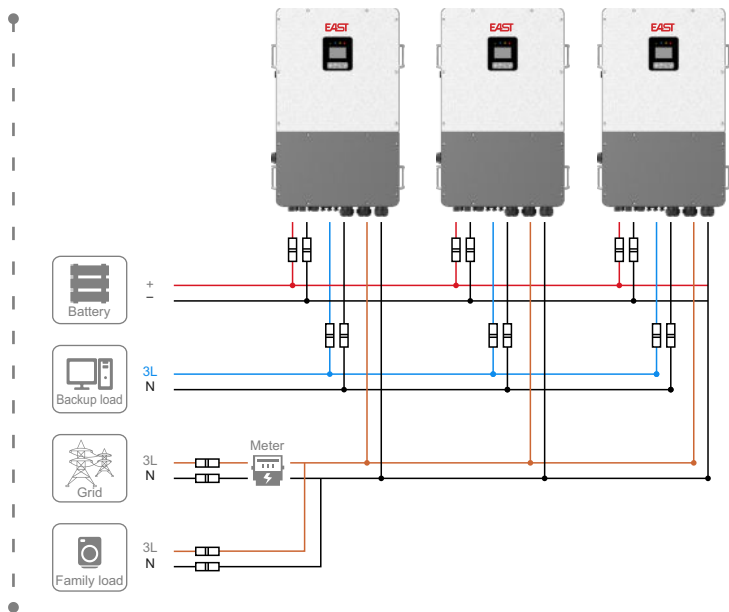
Typical application 1



Typical application 2



Parallel application



Specification

MODEL	ESH30K3PHVG1-EU	ESH40K3PHVG1-EU	ESH50K3PHVG1-EU	ESH60K3PHVG1-EU
PV input				
Max. input power	60kW	80kW	100kW	
Max. input voltage	1000V			
Start-up voltage	200V			
MPPT voltage range	150~850V			
Max. input current	20A			
Max. short circuit current	30A			
Number of MPPT/ max. number of PV strings	4/2+2+2+2			
Battery input/output				
Battery voltage range	135~850V			
Max. charge/ discharge current	100A			
Max. charge/ discharge power	30kW	40kW	50kW	60kW
Battery BMS communication	RS485			
AC output(EPS & Smart)				
Rated output power	30kW	40kW	50kW	60kW
Max. apparent output power	30kVA	40kVA	50kVA	60kVA
Rated output current	45.6/43.3A	60.8/57.7A	76/72.2A	91.2/86.6A
Rated output voltage/ frequency	380/400V, 3L+N+PE, 50/60Hz			
Power factor	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)	30kW	40kW	50kW	60kW
Max. grid input current	91.2A	121.6A	152A	182.4A
Max. diesel generator input current	45.6/43.3A	60.8/57.7A	76/72.2A	91.2/86.6A
Rated input voltage/ frequency	380/400V, 3L+N+PE, 50/60Hz			
Efficiency				
Max. efficiency	98.5%			
European efficiency	97.50%			
MPPT efficiency	99.90%			
General parameters				
Display	LCD			
Communications	Ethernet, RS485, 4G/WIFI			
IP rating	IP66			
Operating temperature	-25~+60°C(>45°C linear derating to 60%)			
Humidity	<95%(non-condensing)			
Cooling mode	Air cooling			
Noise level	<65dB			
Dimensions(W×H×D)(mm)	544×880×278			
Net weight(kg)	88			