

Hybrid Inverter

ESH8K/10K/15K/20K3PLVG1-AA

Three phase



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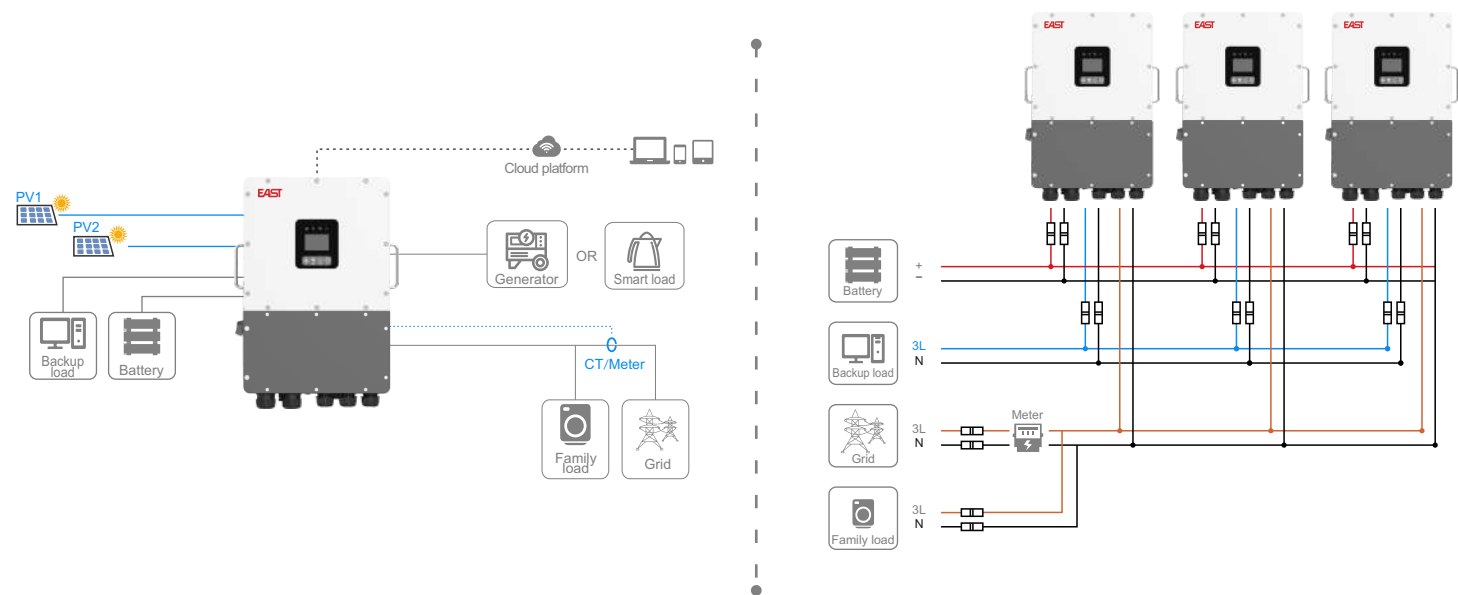
2 independent MPPT(2/2+2), max. PV input 48kW, MPPT efficiency up to 99.9%
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3 battery ports, max. 415A charge/discharge, up to 8 units parallel, AC coupling available
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2xrated surge power for 10s, supports 150% three-phase unbalanced output
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SiC high efficiency design, full aluminum IP66 enclosure, full-load operation without derating at 45°C

Typical application



Specification

MODEL	ESH8K3PLVG1-AA	ESH10K3PLVG1-AA	ESH15K3PLVG1-AA	ESH20K3PLVG1-AA
PV input				
Max. input power	16000W	20000W	30000W	40000W
Max. input voltage	1000V			
Start-up voltage	180V			
MPPT voltage range	150V~850V			
Max. input current	20A			
Max. short circuit current	30A			
Number of MPPT/ max. number of PV strings	2/2+2			
Battery input/output				
Battery voltage range	40V~60V			
Max. charge/ discharge current	180A/180A	220A/220A	315A/315A	390A/390A
Max. charge/ discharge power	8000W	10000W	15000W	20000W
Battery BMS communication	RS485/CAN			
AC output(Backup & Smart)				
Rated output power	8000W	10000W	15000W	20000W
Max. apparent output power	8000VA	10000VA	15000VA	20000VA
Rated output current	12A	15A	22A	29A
Rated output voltage/ frequency	3L+N+PE, 380V/400V, 50Hz/60Hz			
Power factor	>0.99(0.8 leading~0.8 lagging)			
THDi	<3%@rated power			
EPS switching time	<20ms			
Starting surge	10s@2×rated power/60s@1.5×rated power/3min@1.2×rated power/6min@1.1×rated power			
THDu	<3%(Linear load)			
AC input(Grid & Gen)				
Max. AC charging power (grid to battery)	8000W	10000W	15000W	20000W
Max. grid input current	24A	29A	43A	58A
Max. diesel generator input current	13.5A	16.8A	25.3A	33.7A
Rated input voltage/ frequency	3L+N+PE, 380V/400V, 50Hz/60Hz			
Efficiency				
Max. efficiency	97.5%		98.0%	
European efficiency	97.00%		97.20%	
MPPT efficiency	99.90%			
General parameters				
Display	LCD+APP			
Communications	RS485/WiFi/CAN/DRM(Optional: Bluetooth/LAN/Meter)			
IP rating	IP66			
Operating temperature	-25°C~~+60°C(Linearly derating to 60% when exceed +45°C~~+60°C)			
Humidity	0~95%(Non-condensing)			
Cooling mode	Intelligent Air Cooling			
Noise level	<65 dB			
Dimensions(W×H×D)(mm)	448x660x265			
Net weight(kg)	45			