

Hybrid Inverter

ESH14K/16K1PLVG1-AA

Single phase



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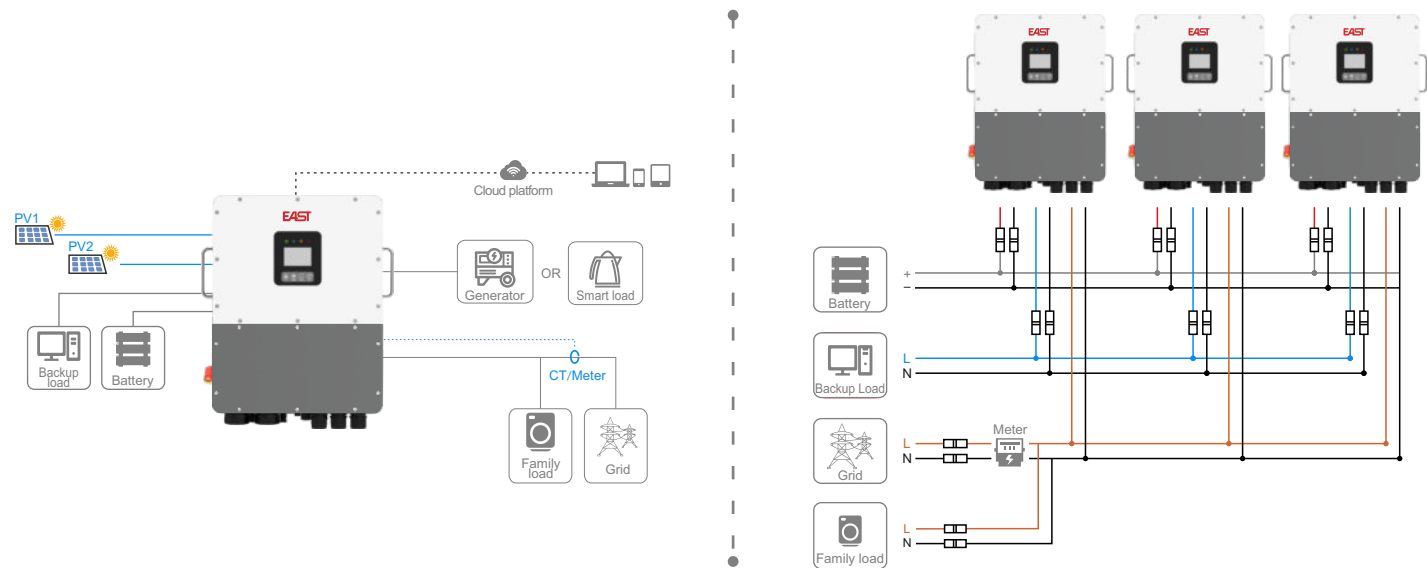
2.3 independent MPPT, 150% PV oversizing for higher yield
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<10ms UPS-level switching, AC coupling ready for system retrofit
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Max. 275A charge/discharge, compatible with genset, up to 6 units parallel
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Full aluminum IP66 enclosure, stable operation under harsh environments

Typical application



Specification

MODEL	ESH14K1PLVG1-AA		ESH16K1PLVG1-AA	
PV input				
Max. input power	21000W		22500W	
Max. input voltage	550V			
Start-up voltage	120V			
MPPT voltage range	120V~520V			
Max. input current	26A			
Max. short circuit current	39A			
Number of MPPT/ max. number of PV strings	3/2+2+2			
Battery input/output				
Battery voltage range	40V~60V			
Max. charge/ discharge current	275A			
Max. charge/ discharge power	14000W		16000W	
Battery BMS communication	RS485/CAN			
AC output(Backup & Smart)				
Rated output power	14000W		16000W	
Max. apparent output power	14000W		16000W	
Rated output current	60.9A		69.6A	
Rated output voltage/ frequency	L+N+PE, 220V/230V/240V, 50Hz/60Hz			
Power factor	>0.99(0.8 leading~0.8 lagging)			
THDi	<3%@rated power			
EPS switching time	<10ms			
Starting surge	10s@2×rated power/1min@1.5×rated power			
THDu	<3%(Linear load)			
AC input(Grid & Gen)				
Max. AC charging power (grid to battery)	14000W		16000W	
Max. grid input current	60.9A		69.6A	
Max. diesel generator input current	28000A		32000A	
Rated input voltage/ frequency	L+N+PE, 220V/230V/240V, 50Hz/60Hz			
Input voltage range	184~276Vac(L-N)			
Efficiency				
Max. efficiency	97.5%			
European efficiency	97.00%			
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)	448×660×265			
Net weight(kg)	45			