

Hybrid Inverter

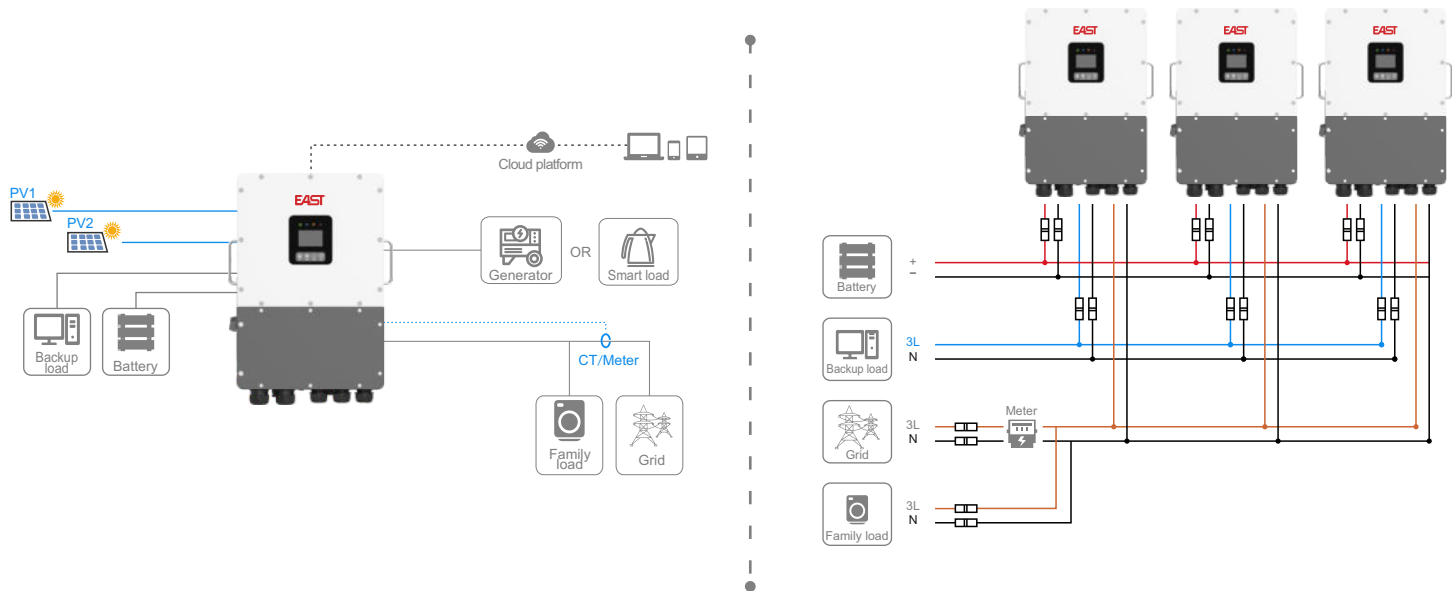
ESH10K/15K/20K/24K3PLVG1-AA

Three phase



- Three independent MPPT channels, different current per MPPT channel, max. 245A battery charge/discharge current
- IP66 dustproof & waterproof design, built-in AC & DC circuit breakers, optional AFCI arc fault protection
- Support multiple operation modes with timing schedule for battery charging and discharging
- Powerful parallel capability: max. 9 units parallel connection, compatible with both on-grid and off-grid working modes
- Compatible with 40~60V lithium & lead-acid batteries, support generator connection, smart load output and AC coupling
- Equipped with local touch screen and cloud remote monitoring system to check real-time operation data

Typical application



Specification

MODEL	ESH10K3PLVG1-AA		ESH15K3PLVG1-AA		ESH20K3PLVG1-AA		ESH24K3PLVG1-AA	
PV input								
Max. input power	20000W		30000W		40000W		48000W	
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	220A		315A		390A		415A	
Max. charge/ discharge power	10000W		15000W		20000W		24000W	
Battery BMS communication	RS485/CAN							
AC output(Backup & Smart)								
Rated output power	10000W		15000W		20000W		24000W	
Max. apparent output power	10000VA		15000VA		20000VA		24000VA	
Rated output current	15A		22A		29A		35A	
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)	10000W		15000W		20000W		24000W	
Max. grid input current	29A		43A		58A		60A	
Max. diesel generator input current	16.8A		25.3A		33.7A		40.4A	
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							