

Hybrid Inverter

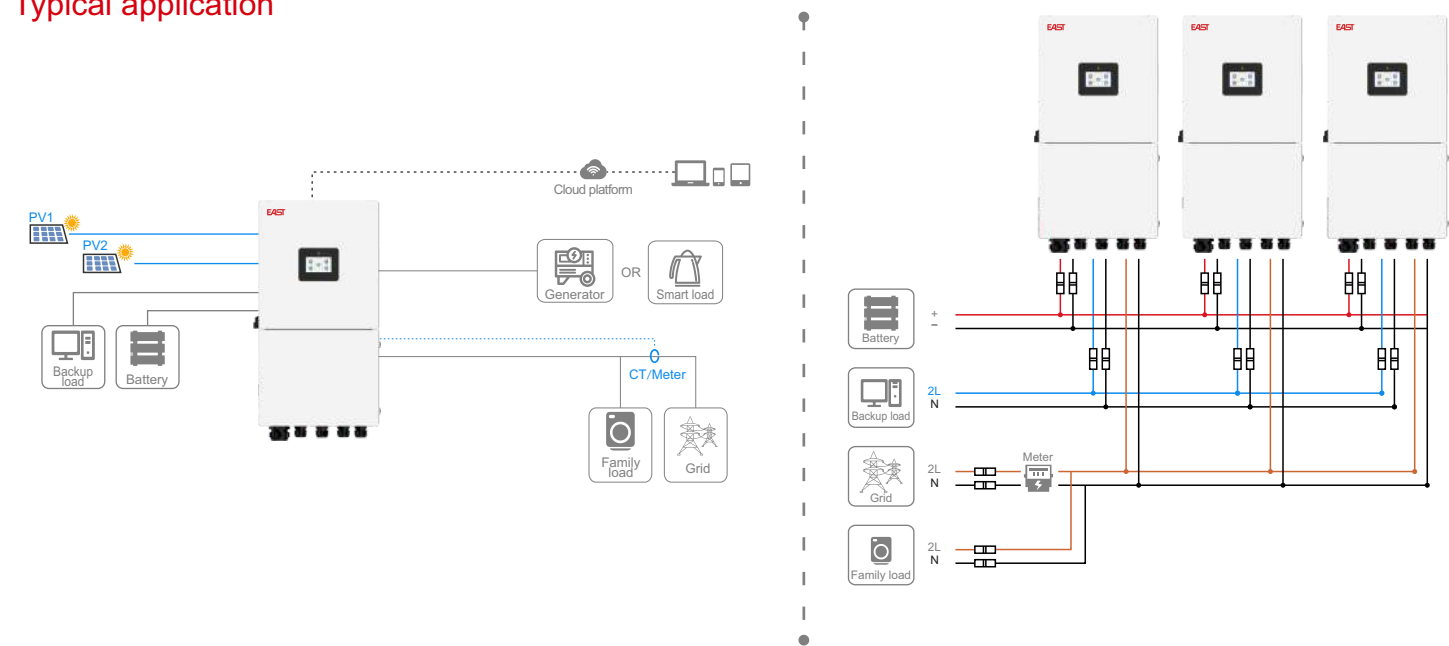
ESH6K/7.5K/8K/12K2PLVG2-LA

Split phase



- Three independent MPPT channels, 30A current per MPPT channel, max. 210A battery charge/discharge current
- Compatible with 40~60V lithium & lead-acid batteries, support generator connection, smart load output and AC coupling
- Powerful parallel capability: max. 9 units parallel connection, compatible with both on-grid and off-grid working modes
- IP65 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
- Equipped with local touch screen and cloud remote monitoring system to check real-time operation data

Typical application



Specification

MODEL	ESH6K2PLVG2-LA		ESH7.5K2PLVG2-LA		ESH8K2PLVG2-LA		ESH12K2PLVG2-LA	
PV input								
Max. input power	9000W		12000W				15000W	
Max. input voltage	600V							
Start-up voltage	90V							
MPPT voltage range	70V~540V							
Max. input current	30A/22A		30A/22A/22A					
Max. short circuit current	40A/30A		40A/30A/30A					
Number of MPPT/ Max. number of PV strings	2/2		3/2					
Battery input/output								
Battery voltage range	40V~60V							
Max. charge/ discharge current	210A/130A		210A/180A		210A/180A		210A/210A	
Max. charge/ discharge power	10000W/6000W		10000W/7500W		10000W/8000W		10000W/10000W	
Battery BMS communication	RS485/CAN							
AC output(Backup & Smart)								
Rated output power	6000W		7500W		8000W		12000W	
Max. apparent output power	6600VA		7500VA		8800VA		12000VA	
Rated output current	25A@240V/50A@120V		31.25A@240V/ 62.5A@120V		33.3A@240V/ 66.6A@120V		50A@240V/ 100A@120V	
Rated output voltage/ frequency	L1/L2/N/PE, 120/240V, 50/60Hz							
Power factor	>0.99(0.8 leading~0.8 lagging)							
THDi	<3%@rated power							
EPS switching time	<10ms							
Starting surge	5min@1.2×rated power/1min@1.4×rated power							
THDu	<3%(Linear load)							
AC input(Grid & Gen)								
Max. AC charging power (grid to battery)	10000W							
Max. grid input current	40A		52.5A		52.5A		62.5A	
Max. generator input power	11000W							
Rated input voltage/ frequency	L1/L2/N/PE, 120/240V, 50/60Hz							
Efficiency								
Max. efficiency	94.5%							
CEC. efficiency	96.50%							
MPPT efficiency	99%							
General parameters								
Display	LED+LCD							
Communications	CAN(for BMS), RS485(for meter), RS485, CAN(for parallel), Optional: WiFi /LAN							
Max. operation altitude	4000m(>2000m derating)							
IP rating	IP65							
Operating temperature	-25~60°C(>45°C derating)							
Humidity	0~100%							
Cooling mode	Smart Cooling							
Noise level	<45dB							
Dimensions(W×H×D)(mm)	420x790x255							
Net weight(kg)	44							