

Hybrid Inverter

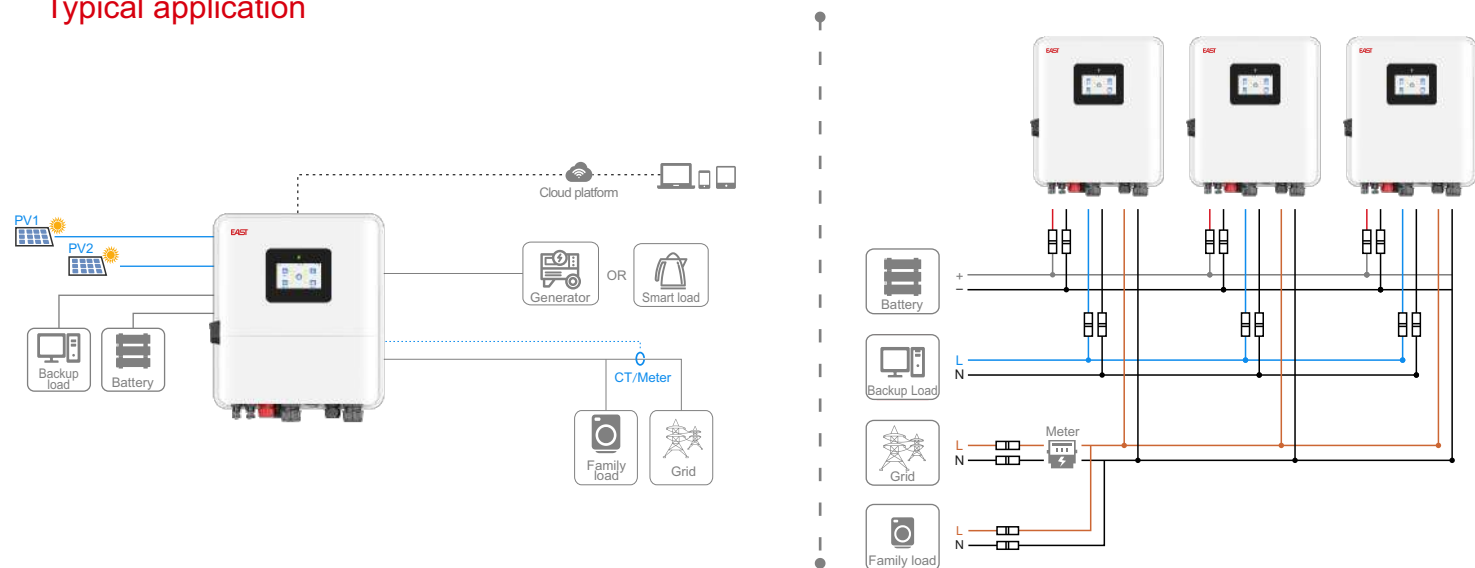
ESH3.5K1PLVG2-LA

Single phase



- Dual independent MPPT channels, 213% oversized PV capacity, max. 7.8kW PV input
- Powerful parallel capability: support multi units single-phase parallel connection
- Compatible with 40~60V lithium & lead-acid batteries, max. 75A battery charge/discharge current
- IP65 dustproof & waterproof design, equipped with seamless UPS backup transfer <10ms for power outage

Typical application



Specification

MODEL	ESH3.5K1PLVG2-LA
PV input	
Max. input power	7800W
Max. input voltage	500V
Start-up voltage	90V
MPPT voltage range	70V~480V
Max. input current	18A
Max. short circuit current	25A
Number of MPPT/ max. number of PV strings	2/1
Battery input/output	
Battery voltage range	40V~60V
Max. charge/ discharge current	75A/75A
Max. charge/ discharge power	3600W
Battery BMS communication	RS485/CAN
AC output(EPS & Smart)	
Rated output power	3157W@110V, 3444W@120V, 3645W@127V
Max. apparent output power	3472.7VA@110V, 3788.4VA@120V, 4009.5VA@127V
Rated output current	28.7 A
Rated output voltage/ frequency	110V/120V/127V, 50Hz/60Hz, L+N+PE
Power factor	>0.99(0.8 leading~0.8 lagging)
THDi	<3%@rated power
EPS switching time	<10ms
Starting surge	10s@2×rated power
THDu	<3%(Linear load)
AC input(Grid & Smart)	
Max. AC charging power (grid to battery)	3600W
Max. grid input current	41A
Max. diesel generator input current	41A
Rated input voltage/ frequency	110V/120V/127V, 50Hz/60Hz, L+N+PE
Efficiency	
Max. efficiency	97.3%
European efficiency	96.50%
MPPT efficiency	99%
General parameters	
Display	LED+LCD
Communications	CAN(for BMS), RS485, CAN(for parallel), 1×DO, 1×DI, Wi-Fi
IP rating	IP65
Operating temperature	-25°C~60°C(>45°C derating)
Humidity	0~100%
Cooling mode	Natural Cooling
Noise level	<45dB
Dimensions(W×H×D)(mm)	367×421×215
Net weight(kg)	15