

IGrid VE II 5.5KW WIFI

Hybrid Solar Inverter



»» Features

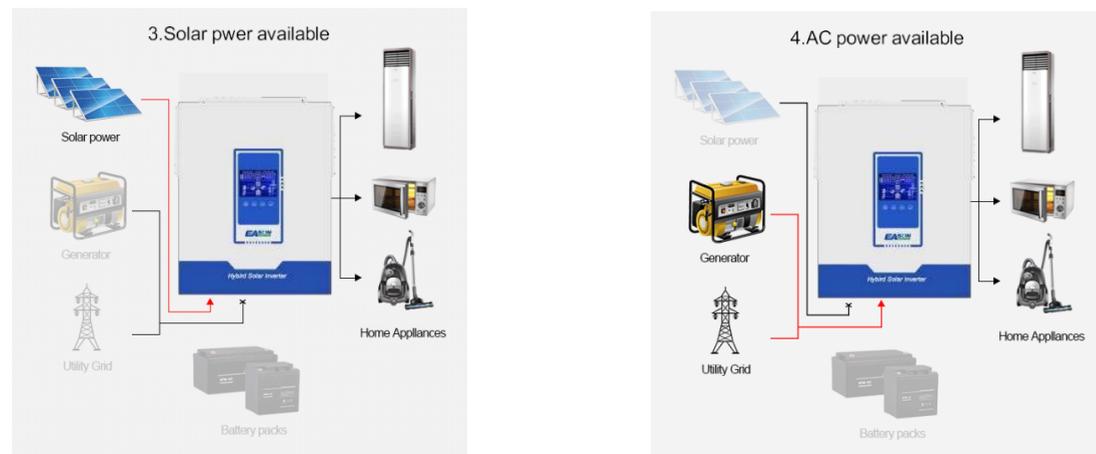
- Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- Two output modes: mains bypass and inverter output; uninterrupted power supply
- Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- Advanced MPPT technology with an efficiency of 99.9%.
- Designed with a LCD screen and 3 LED indicators for dynamic display of system data and operating status.
- ON/OFF rocker switch for AC output control
- Power saving mode available to reduce no-load loss.
- Intelligent variable speed fan efficiently dissipate heat and extend system life.
- Lithium battery activation by PV solar or mains, allowing access of lead-acid battery and lithium battery.
- 360° all-around protection with a number of protection functions.
- Complete protections, including short circuit protection, over voltage and under voltage protection, overload protection, reverse protection, etc.

»» Application Diagram

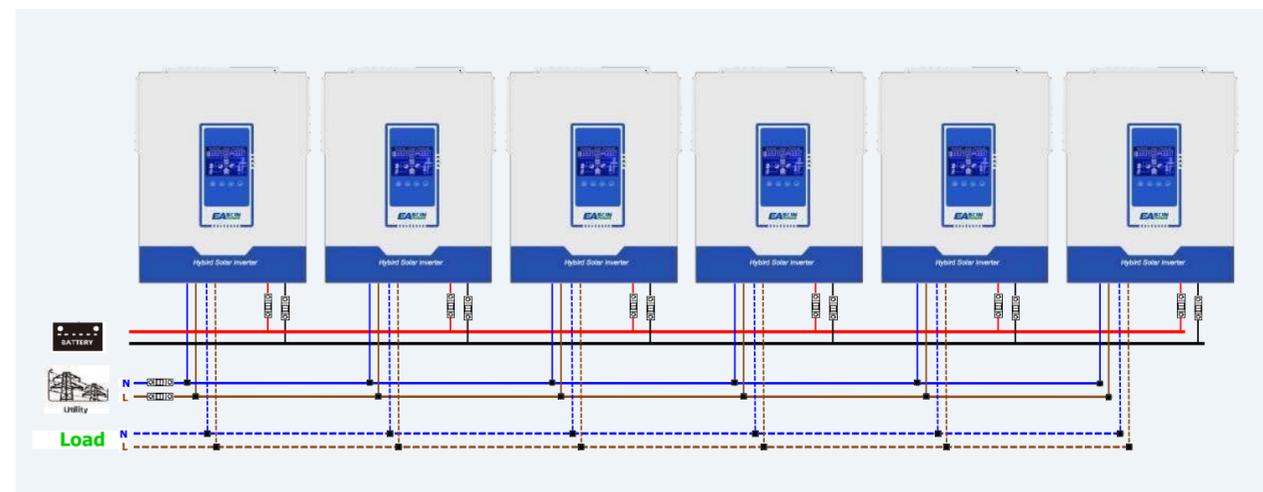
■ Operation with battery connected



■ Operation without battery connected



»» Parallel operation



IGrid VE II Technical Parameter

Model	IGrid-VE-II-5.5KW-Wifi
Battery Input	
Battery type	Sealed, FLOOD, GEL, LFP, Ternary
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)
Hybrid Charging Maximum Charging Current	100A
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)
Solar Input	
Maximum PV Open-circuit Voltage	500Vdc
PV Working Voltage Range	120-500Vdc
MPPT Voltage Range	120-450Vdc
Maximum PV Input Current	22A
Maximum PV Input Power	6000W
Maximum PV Charging Current	100A
AC Input (generator/grid)	
Mains Maximum Charging Current	60A
Rated Input Voltage	220/230Vac
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac~280Vac)±2%
Frequency	50Hz/ 60Hz (Automatic Detection)
Mains Charging Efficiency	>95%
Switch Time (bypass and inverter)	10ms(Typical Value)
Maximum Bypass Overload Current	40A
AC Output (Backup power)	
Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage (Vac)	230Vac
Rated Output Power (VA)	5500
Rated Output Power(W)	5500
Peak Power	10000VA
On-load Motor Capacity	4HP
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>92%
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)
AC Output (Grid)	
Rated Output Power (VA)	5500
Max. apparent power (VA)	5500
Max. output current (A)	24
THDI	<3%
Rated voltage(V)	230Vac
Frequency	50Hz/60Hz
General	
Number of parallel/split phases	1-6PCS
Certificate	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)/FCC/SAA
EMC Certification Level	EN61000, C2
Working Temperature Range	-10°C ~ 55°C
Storage Temperature Range	-25°C ~ 60°C
Humidity Range	5% to 95%(Conformal Coating Protection)
Dimensions	426mm*322mm*124mm
Weight (KG)	10.1