Single Phase Hybrid Inverter

Ven-3/3.6/4/5/6/6.6G1-LE
Ven-3/3.6/4/5/6/6.6G2-LE



Product Features

- Support different power inverters parallel connection
- Up to 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- IP65 protection rating
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

Technical Data

Model	Ven-3G1-LE Ven-3G2-LE	Ven-3.6G1-LE Ven-3.6G2-LE	Ven-4G1-LE Ven-4G2-LE	Ven-5G1-LE Ven-5G2-LE	Ven-6G1-LE Ven-6G2-LE	Ven-6.6G1-LE Ven-6.6G2-LE
Battery Input Data						
Battery Type	Lead-acid or Li-ion					
Battery Voltage(V)	48(40V-60V)					
Battery Charge/Discharge Current(A)	60	75	85	110	135	150
Charging Strategy for Li-Ion	Self-Adaption to BMS					
PV Input Data						
Max.PV Input Power(W)	4500	5400	6000	7500	9000	9900
Max.PV Input Voltage(V)	500					
Start-up Voltage(V)	125					
PV Input Voltage Range (V)	370（125-500）					
MPPT Input Range(V)	150-425					
Max Operating PV Input Current(A)	18+18	18+18	18+18	18+18	18+18	18+18
Max.PV Input Short-Circuit Current(A)	27+27	27+27	27+27	27+27	27+27	27+27
No.of MPPT Trackers/ No.of Strings per MPPT Tracker	2/1+1					
AC Input/Output Data						
Rated AC Input/Output Active Power(W)	3000	3600	4000	5000	6000	6600
Max. AC Input/Output Apparent Power(W)	3300	3960	4400	5500	6600	7260
Peak Power (off-grid)(W)	2 times of rated power，>10S					
Rated AC Input/Output Current(A)	13	15.7	17.4	21.7	26.1	28.7
Max. AC Input/Output Current(A)	14.3	17.2	19.1	23.9	28.7	31.6
Max.Continuous AC Passthrough(grid to load) (A)	40	40	40	40	40	40
Rated Input/Output Voltage(V)	230					
Grid Connection Form	L+N+PE					
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz					
Power Factor Adjustment Range	0.8 leading-0.8 lagging					
Total Current Harmonic Distortion THDi	THD<3%(Linear load <1.5%)					
DC Injection Current	<0.5%In					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
MPPT Efficiency	99%					
Protection						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection					
PV ARC Fault Detection	Optional					
Output Over Voltage Protection	DC Type II/AC Type III					
Certification and Standards						
EMC/Safety Regulation	IEC/EN 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4					
General Data						
Operating Temperature Range(℃)	-45~60，>45 Derating					
Cooling	Natural Cooling				Smart Cooling	
Noise(dB)	≤30				≤40	
Communication with BMS	CAN, RS485					
Weight (kg)	22/23.5				23/24.5	
Dimensions (W*H*D)(mm)	350 × 500 × 256 mm					
Protection Degree	IP65					
Installation Style	Wall-mounted					