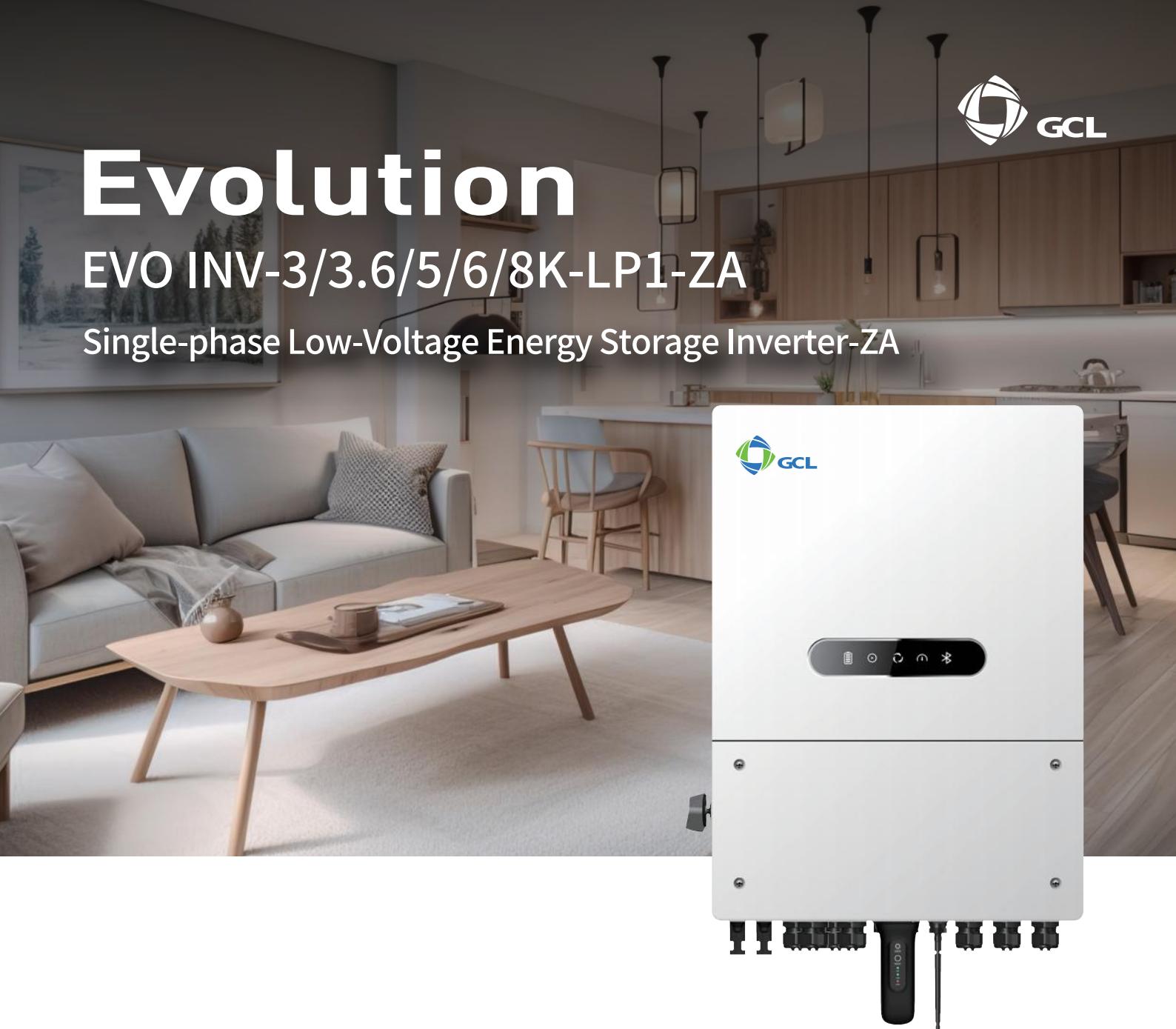


Evolution

EVO INV-3/3.6/5/6/8K-LP1-ZA

Single-phase Low-Voltage Energy Storage Inverter-ZA



Various methods to access the diesel generator, the generator can be controlled automatically start and stop



UPS level on/off grid switching



Up to 10 sec output at 2x rated power



Support single-phase or three-phase parallel connection, with capacity to construct a maximum system of up to 36KW



Charge and discharge current up to 190A



Up to 6 time slots charge/discharge



Support LFP and SLA batteries, with integrated battery management and protection functions



Support "Peak Shaving" function in both self-consumption and generator mode

Specification Table

EVO INV-3/3.6/5/6/8K-LP1-ZA

Model	3K	3.6K	5K	6K	8K
DC input (photovoltaic side)					
Maximum input power	4.8kW	5.76kW	8kW	9.6kW	12.8kW
Maximum input voltage			600V		
Rated input voltage			330V		
Starting voltage			90V		
MPPT voltage range			90-520V		
Maximum input current			16A/16A		32A/20A
Maximum input short-circuit current			24A/24A		36A/30A
Number of MPPTs/maximum number of input strings			2/2		2/3
Battery					
Battery type			Lithium battery/lead-acid battery		
Battery voltage range			40-60V		
Maximum charging/discharging power	3kW	3.6kW	5kW	6kW	8kW
Maximum charging/discharging current	70A	80A	112A	135A	190A
Communication method			CAN/RS485		
AC output (grid side)					
Rated output power	3kW	3.6kW	5kW	6kW	8kW
Maximum output apparent power	3.3kVA	4kVA	5.5kVA	6.6kVA	8.8kVA
Rated grid voltage			1/N/PE, 220V/230V		
Rated grid frequency			50Hz/60Hz		
Rated grid output current	13.6A/13.0A	16.4A/15.7A	22.7A/21.7A	27.3A/26.1A	36.4A/34.8A
Maximum output current	15A	20A	25A	30A	40A
Output power factor			>0.99 (0.8 Leading... 0.8 lagging)		
Total current harmonic distortion rate			<2%		
AC input (grid side)					
Input voltage range			187-253V		
Maximum input current	20A	25A	32A	40A	20A
Frequency range			45-55Hz/55-65Hz		
AC output (off grid side)					
Rated output power	3kW	3.6kW	5kW	6kW	8kW
Maximum output apparent power			Support 10s continuous output 2 times rated power		
Switch time			<4 ms		
Rated output voltage			1/N/PE, 220V/230V		
Rated frequency			50Hz/60Hz		
Rated output current	13.6A/13.0A	16.4A/15.7A	22.7A/21.7A	27.3A/26.1A	36.4A/34.8A
Maximum output current	15A	20A	25A	30A	40A
Total voltage harmonic distortion rate			<2%		
Efficiency					
Maximum efficiency			>97.5%		
European efficiency			>96.2%		
Protect					
Ground fault detection			Available		
Integrated AFCI (DC Arc fault protection)			Optional		
DC reverse connection protection			Available		
Protection level/overvoltage type			I/II		
Basic parameters					
Dimensions (Width * Height * Depth)			406*560*205 mm		406*560*215 mm
Weight			24kg		27kg
Topology			High frequency isolation (battery)		
Working environment temperature			-40 ~ +60°C		
Protection level			IP66		
Cooling method			Natural cooling		Intelligent air-cooled
Maximum working altitude			4000m		
Grid standard			NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA		
Safety regulations/EMC standards			IEC/EN 62109-1/-2, EN 61000-6-2/-3		
Characteristic					
DC port			MC4 Connectors (PV Port) / Terminal (Battery port)		
AC port			Terminal		
Display screen			LED+APP		
Communication method			RS485 / CAN / Wi-Fi (Optional) / GPRS (Optional) / LAN (Optional)		