



Evolution

EVO INV-5/6/8/10K-HP3

Three Phase High-voltage Energy Storage Inverter



Multipul MPPT design,
for different roof orientations



Up to 50A/10kW
charge and discharge rate



UPS level
on/off grid switching



Support 'Peak Shaving'
mode



Come with cabels for
battery and meter



Support
parallel connections



Superior
adaptability



Ultra-long
battery lifespan

Specification Table

EVO INV-5/6/8/10K-HP3

Model	5K	6K	8K	10K
DC IN				
Maximum input power	8kW	9.6kW	12.8kW	16kW
Maximum input voltage			1000V	
Rated input voltage			600V	
Starting voltage			160V	
MPPT voltage range			200-850V	
Maximum input current	16A/16A/16A			16A/16A/16A/16A
Maximum input short-circuit current	24A/24A/24A			24A/24A/24A/24A
Number of MPPTs/maximum number of input strings	3/3			4/4
Battery				
Battery type			Lithium battery	
Battery voltage range			120-600V	
Maximum charging/discharging power	5kW	6kW	8kW	10kW
Maximum charging/discharging current	25A			50A
Communication method			CAN/RS485	
AC output (grid side)				
Rated output power	5kW	6kW	8kW	10kW
Maximum output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA
Rated grid voltage			3/N/PE, 380V/400V	
Rated grid frequency			50Hz/60Hz	
Rated grid output current	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A
Maximum output current	8.4A/7.9A	10A/9.6A	13.4A/12.7A	16.7A/15.8A
Output power factor		>0.99 (0.8 Leading... 0.8 lagging)		
Total current harmonic distortion rate		<3%		
AC input (grid side)				
Maximum input power	7.5kW	9kW	12kW	15kW
Rated input current	11.4A	13.8A	18.2A	22.8A
Rated input voltage			3/N/PE, 380V/400V	
Rated input frequency			50Hz/60Hz	
AC output (off grid side)				
Rated output power	5kW	6kW	8kW	10kW
Maximum output apparent power	8 kVA, 60sec	9.6 kVA, 60sec	12.8 kVA, 60sec	16 kVA, 60sec
Switch time			<10ms	
Rated output voltage			3/N/PE, 380V/400V	
Rated frequency			50Hz/60Hz	
Rated output current	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A
Total voltage harmonic distortion rate			<2%	
Efficiency				
Maximum efficiency	97.9%	97.9%	98.0%	98.0%
European efficiency	96.8%	97.1%	97.4%	97.5%
PV maximum charging efficiency	98.4%	98.5%	98.2%	98.3%
Maximum charging and discharging efficiency of battery	97.3%	97.3%	97.5%	97.5%
Protect				
Island protection			Available	
AC output overcurrent protection			Available	
AC short circuit protection			Available	
Integrated AFCI (DC Arc fault protection)			Optional	
Integrated DC switch			Available	
DC reverse connection protection			Available	
PV overvoltage protection			Available	
Battery reverse connection protection			Available	
Basic parameters				
Dimensions (Width * Height * Depth)		600*500*230 mm		
Weight		32.6kg		
Topology		No transformer		
Night self consumption		<25W		
Working environment temperature/humidity		-25 ~ +60°C		
Protection level		IP66		
Cooling method		Natural cooling		
Maximum working altitude		4000 m		
Grid standard	G98 或 G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA			
Safety regulations/EMC standards	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Characteristic				
PV Port		MC4 Connector		
Battery port		Fast connector		
AC port		Fast connector		
Display screen		LED + Bluetooth + APP		
Communication method	CAN / RS485 / Ethernet / Wi-Fi (Optional) / Cellular (Optional) / LAN (Optional)			