



MacroPV 6800HT Series

6250kW / 6800kW 3:3 / PF-1

MacroPV 6800HT Series is a DC 1500V turnkey 40ft containerized Solar Inverter solution with MV transformer and RMU which is widely used in very large-scale centralized solar power plants such as remote areas, islands, and distributed generation. This solution is convenient to transport and easy to install which will greatly shorten the construction period and save construction costs as it can be directly installed outdoors. MacroPV HT Series is equipped with a one-stop intelligent data management platform to provide flexible and efficient solutions for industrial and commercial power stations, poverty alleviation power stations, and ground power stations. MacroPV 6800HT series provides flexible two capacities options of 6250kW / 6800kW that fit any large-scale solar distributed power plant



Max. PV voltage up to 1500V
Max. 56 DC inputs



IP54 Outdoor Protection
Modular design for
Easy maintenance



Max. efficiency up to 99%
Full power output under 50°C



AGC/AVC
Night SVG function
LVRT/HVRT/FRT function

Technical Specifications

MODEL	MacroPV 6250 HT	MicroPV 6800 HT
Input		
Max. DC input voltage	1500Vdc	
MPPT voltage range	900~1300Vdc	
Number of MPPT	4	
Number of DC input	56	
Max. input current	8160A	
Output		
Rated output power	6250kW	6800kW
Max. output power	7200kW (25°C)	
AC output voltage	10~35kV	
LV/MV voltage	0.63kV / 10~35kV	
Grid frequency range	50 / 60Hz(±5Hz) (adjustable)	
Power factor (cosφ)	1 (0.8 leading – 0.8 lagging) (adjustable)	
THDi	<3%	
System features		
Inverter Max. efficiency	99%	
Inverter Euro efficiency	98.7%	
MPPT efficiency	>99%	
Cooling type	Forced air cooling	
Communication interface	RS485, External Ethernet (Optional)	
MV transformer vector	Dy11y11	
MV transformer type	Oil/Dry	
MV switchgear protection	Circuit Breaker	
Environment		
Operating temperature	-40°C ~ +60°C (More than 50°C derating)	-40°C ~ +60°C (More than 45°C derating)
Humidity range	0~95% (non-condensing)	
Altitude	2000m	
Noise level	<65dB	
Protection rating	IP54	
Protection devices		
AC leakage current fault protection	Yes	
LVRT/HVRT	Yes	
Ground fault protection	Yes	
Anti-islanding protection	Yes	
DC overvoltage protection	Yes	
DC surge protection	Yes	
AC surge protection	Yes	
DC reverse-polarity protection	Yes	
Physical		
Dimensions W x D x H (mm)	12192X2438X2896	

Specifications subject to change without prior notice.