

Table 3 Charge Mode Specifications

Utility Charging Mode			
INVERTER MODEL	Sunglow VMII 3000	Sunglow VMII 5000	
Charging Algorithm	3-Step		
AC Charging Current (Max)	60Amp (@ $V_{I/P}=230V_{ac}$)		
Bulk Charging Voltage	Flooded Battery	29.2	58.4
	AGM / Gel Battery	28.2	56.4
Floating Charging Voltage	27Vdc	54Vdc	
Charging Curve	<p>The graph plots Battery Voltage (per cell) on the left y-axis and Charging Current (%) on the right y-axis against Time on the x-axis. The voltage curve (black) rises linearly in the Bulk stage, plateaus in the Absorption stage, and then slightly drops in the Maintenance stage. The current curve (red) is constant in the Bulk stage, drops to zero in the Absorption stage, and remains at zero in the Maintenance stage. Key voltage levels are 2.43Vdc (2.35Vdc) and 2.25Vdc. Time intervals T0 and T1 are marked, with T1 = 10 * T0, minimum 10mins, maximum 8hrs.</p>		
MPPT Solar Charging Mode			
INVERTER MODEL	Sunglow VMII 3000	Sunglow VMII 5000	
Max. PV Array Power	4000W		
Nominal PV Voltage	240Vdc		
PV Array MPPT Voltage Range	120~450Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
Max Charging Current (AC charger plus solar charger)	80Amp		

Table 4 General Specifications

INVERTER MODEL	Sunglow VMII 3000	Sunglow VMII 5000
Safety Certification	CE	
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Dimension (D*W*H), mm	100 x 300 x 440	
Net Weight, kg	9	10