

### Table 3 Charge Mode Specifications

Utility Charging Mode	
<b>INVERTER MODEL</b>	<b>6.2KVA</b>
<b>Max Charging Current (PV+AC)</b>	120Amp (@ V <sub>I/P</sub> =230Vac)
<b>MaxCharging Current (AC)</b>	80Amp (@ V <sub>I/P</sub> =230Vac)
<b>Bulk Charging Voltage</b>	Flooded Battery 58.4Vdc
	AGM / Gel Battery 56.4Vdc
<b>Floating Charging Voltage</b>	54Vdc
<b>Overcharge Protection</b>	63Vdc
<b>Charging Algorithm</b>	3-Step
<b>Charging Curve</b>	<p>The graph shows the relationship between battery voltage and charging current over time during the charging process. It features three distinct phases:</p> <ul style="list-style-type: none"> <li><b>Bulk (Constant Current):</b> The initial phase where the battery voltage increases linearly from approximately 2.25Vdc to 2.43Vdc (2.35Vdc).</li> <li><b>Absorption (Constant Voltage):</b> The second phase where the voltage remains constant at 2.43Vdc (2.35Vdc) while the current decreases exponentially.</li> <li><b>Maintenance (Floating):</b> The final phase where the voltage remains constant at 2.43Vdc (2.35Vdc) and the current continues to decrease towards zero.</li> </ul> <p>Key parameters indicated on the graph:</p> <ul style="list-style-type: none"> <li>Initial voltage: 2.25Vdc</li> <li>Final voltage: 2.43Vdc (2.35Vdc)</li> <li>Charging Current (%): 100% (initial), 50% (mid-absorption), 0% (final)</li> <li>Time intervals: T0 (bulk phase), T1 (absorption phase, labeled as T1 = 10 * T0, minimum 10mins, maximum 8hrs)</li> </ul>
<b>Solar Input</b>	
<b>INVERTER MODEL</b>	<b>6.2KVA</b>
<b>Rated Power</b>	6500W
<b>Max. PV Array Open Circuit Voltage</b>	500Vdc
<b>PV Array MPPT Voltage Range</b>	60Vdc~500Vdc
<b>Max. Input Current</b>	27A
<b>MaxCharging Current(PV)</b>	120A

<b>INVERTER MODEL</b>	<b>6.2KVA</b>
<b>Safety Certification</b>	CE
<b>Operating Temperature Range</b>	-10°C to 55°C