Stack check list

Order No. MT09S244-300B  Stack No 09300-019Z
Standard product H-300  Quality Control Engineer:
Special request N/A  Testing date: 2009-10-14

Surface

2. Screws, Nuts and Gaskets: Pass
3. Label: Pass  Graphite plate: Pass

Air tightness, air flow resistance

Air tightness: Pass
The pressure of the stack: Pass

Stack Performance

1. Open Voltage: Pass
2. Output Power: Pass
3. Working Voltage: 36-65V
4. Stability: Pass

Running after 12 hours working voltage 43.2V  Working current: 7A

System Control

1. Purging and Short Circuiting

Interval for purging, short circuit: Pass  Purging time: Pass
Low voltage protection: Pass  Over temperature protect: Pass
Controller control: Pass  VAT sampling: Pass
2. Start up time

Constant Voltage Start up time: 10s  Constant A Start up time: 10s

2. temperature control

<table>
<thead>
<tr>
<th>Current (A)</th>
<th>9</th>
<th>8</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (°C)</td>
<td>53</td>
<td>52</td>
<td>51</td>
<td>50</td>
<td>49</td>
<td>48</td>
<td>47</td>
</tr>
</tbody>
</table>

Power curve for stack no. MT09S244-300B

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>64.8</th>
<th>59</th>
<th>55.6</th>
<th>52.6</th>
<th>50</th>
<th>45.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current (A)</td>
<td>0.2</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Power (W)</td>
<td>12.96</td>
<td>118</td>
<td>222.4</td>
<td>315.6</td>
<td>400</td>
<td>456</td>
</tr>
</tbody>
</table>

System Power Curve

Checking Result

Checking DATA 2009,10,14