



## Product comparison: SmartHID™ vs. SuperHID-400W

SmartHID	SuperHID
<b>Input Protection:</b> <i>Surge Protection</i>	<ul style="list-style-type: none"> <li>• Greater protection against harsh environmental conditions, lightning, strong power line disturbances and variations, etc. ensures low fault rate and result in trouble free installations</li> <li>• Complies with both indoor and outdoor regulation standards: 10KV/2KA &amp; 6KV/3KA IEEE C62.41 cat. C low</li> </ul>
<b>Input Protection:</b> <i>(Temporary Over Voltage)</i>	<ul style="list-style-type: none"> <li>• Susceptible to strong power line disturbances and variations, lightning and other harsh environmental conditions</li> <li>• Complies with indoor regulation standards only: 3KV/0.5KA</li> </ul>
<b>Output Protection:</b> <i>Capacitive Mode</i>	<ul style="list-style-type: none"> <li>• 400V</li> </ul>
<b>Output Protection:</b> <i>Arcing/Short to Ground</i>	<ul style="list-style-type: none"> <li>• Ignition of a lamp can sometimes cause a capacitive mode of operation (hard switching). This can also occur if ignition is initiated during remote installation using high capacitive cables. In this state, the ballast is fully protected.</li> </ul>
<b>Remote Installation:</b> <i>Cables</i>	<ul style="list-style-type: none"> <li>• Ignition during capacitive mode causes ballast to fail</li> </ul>
<b>Improved Ignition:</b>	<ul style="list-style-type: none"> <li>• Full protection against arcing or shorting caused by misconnection to socket lamp, insufficient insulation of the hot wire, water/moisture on the socket, etc.,</li> </ul>
<b>Dimming:</b> <i>Depth</i>	<ul style="list-style-type: none"> <li>• Arcing or shorting will cause the ballast to fail</li> </ul>
<b>Auto Dimming:</b> <i>Dimming Software</i>	<ul style="list-style-type: none"> <li>• Standard maximum distance between ballast and lamp as recommended by Metrolight is 15m (50ft).</li> <li>• Ballast has capability for greater distance if required</li> </ul>
<b>Reliability:</b>	<ul style="list-style-type: none"> <li>• Maximum distance is 6m (19ft)</li> </ul>
<b>Lamps Supported:</b>	<ul style="list-style-type: none"> <li>• Ignites and operates most Pulse Start and HPS lamps</li> </ul>
	<ul style="list-style-type: none"> <li>• Very limited coverage of lamps</li> </ul>
	<ul style="list-style-type: none"> <li>• Standard dimming depth provided to customers 35% on HPS; 50% on MH</li> <li>• Ballast capable of providing greater dimming depth if required (10% on HPS; 25% on MH) 55v, 100v, 135v lamps: minimum output 25W</li> </ul>
	<ul style="list-style-type: none"> <li>• 35% minimum dimming</li> <li>• No dimming below 90W</li> </ul>
	<ul style="list-style-type: none"> <li>• Does not require additional software</li> </ul>
	<ul style="list-style-type: none"> <li>• Requires special dedicated software</li> </ul>
	<ul style="list-style-type: none"> <li>• New software resulting in significant decrease in software bugs</li> <li>• New patented topologies for ballast input &amp; output protections described above</li> <li>• Improved design for manufacturing resulting in improved quality of the product</li> </ul>
	<ul style="list-style-type: none"> <li>• Standard</li> </ul>
	<ul style="list-style-type: none"> <li>• Wider variety of lamps supported: 100-400W HPS; 175-450W MH</li> </ul>
	<ul style="list-style-type: none"> <li>• Limited to 250-450W lamps only</li> </ul>