Rittal – The System.
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OCP Specification

- Propose and discuss requirements for the addition to or creation of a specification detailing the interface between Busbar and Enclosure to standardise across the market place enabling a common approach from all suppliers and ease of adoption.
- 48V added to the Latest OCP specification
- Results in potential for 8 SKU levels
- In reality only 6 SKU in general terms.

<table>
<thead>
<tr>
<th></th>
<th>12VDC</th>
<th></th>
<th>48VDC</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Depth</strong></td>
<td>Shallow (30”)</td>
<td>Deep (44”)</td>
<td>Shallow (30”)</td>
<td>Deep (44”)</td>
</tr>
<tr>
<td><strong>Power Rating</strong></td>
<td>13.2kW</td>
<td>36+kW</td>
<td>13.2kW</td>
<td>36+kW</td>
</tr>
<tr>
<td><strong>Busbar format</strong></td>
<td>No perceived demand for a 12vDC system in a shallow rack</td>
<td>1x busbar solution</td>
<td>Develop the frame to add 3 x busbar systems from low power version</td>
<td>1x busbar solution</td>
</tr>
</tbody>
</table>
OCP Specification
SKU variants

12V/48V Deep/Shallow Hi/Low power

1OU Power Shelf + 42 Locations

3OU Power Shelf + 14 Locations

12V potential 112 variants

48V potential 224 variants
OCP Specification

Busbar Interface

Future discussions to be had on Power shelf locations/size/interface method to help reduce variants in manufacture to enable busbar to cope with variability of customers configs.

Busbar has potential to become independent to the rack specification.

Ensuring the Busbar to Rack interface is common across manufacturers platforms is the first step to ensuring interchangeability of hardware to help reduce variants through manufacture and offer controlled variability to the marketplace.

Busbar current options
OCP Specification
Busbar interchangeability
OCP Specification
Busbar Interface lower specification
OCP Specification
Busbar Interface lower specification

Lower Busbar to Rack interface, common across manufacturers platforms, to be specified in Open Rack Standard.

Secured in position with 2 off M6 thread forming screws @ 5Nm
OCP Specification
Busbar Interface lower specification
Controlled by piercing
OCP Specification
Busbar Interface upper specification
OCP Specification
Busbar Interface upper specification

Secured in same manner as lower position, with 2 off M6 thread forming screws @ 5Nm
OCP Specification
Busbar Interface support members

12V central support brace

48V top/btm support brace

Rack structure capable of supporting central and upper/lower braces
**OCP Specification**

**Busbar Interface upper specification**

**Controlled by jig.**

To control Dim A at the top of the busbar becomes more difficult due to piercings being on different planes due to folded section of canopy (accumulation of tolerance).

If Busbars are always to be fitted at Rack manufacturers site and supplied as complete rack unit this poses no issue as jig will control dimension.

However if Busbars are to be complete standalone item, which can be ordered separately from the rack and therefore fitted by the end user as upgrades etc. the top fixing feature needs to eliminate this tolerance accumulation. This can be done by extending the busbar assembly so it interfaces with the same pierced plane that the frame verticals engage into.

- Busbar to be procured separately to the Rack?
- Do we envisage any need for half height Busbar?