### 169.3 System type power requirements

MPSEs and MPDs are categorized by their system type. These system types and the relevant electrical specifications are shown in Table 169–1. An MPSE may transition between Type 0 and Type 1 during IDLE (see Figure 169–3).

MPDs consume integer units of power called “unit loads”. One unit load represents 0.5W.

|  |
| --- |
| Type 0 MPSEs support 39 unit loads. Type 0 MPDs consume at least one unit load **and shall consume no more than 39 unit loads**. Type 1 MPSEs support 76 unit loads. Type 1 MPDs consume at least one unit load **and shall consume no more than 76 unit loads.**The MPD system type and unit load level should be clearly indicated so users can track loading on a mixing segment. The sum of unit load levels on a mixing segment shall not exceed UMPSE(max) as shown in Table 169-1 |

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| --- |
|  |
| **Table 169–1—System Power Types** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Contact** | **Type 0 MPSE**  | **Type 1 MPSE**  | **Units** |
|  |  |  |  |
| VMPSE(max) | 30 | 50 | V |
| VMPSE(min) | 26 | 45 | V |
| VMPD(min) | 16 | 34 | V |
| ITCI\_MSPE(min) | 890 | 940 | mA |
| PMPSE\_U | 23 | 42 | W |
|  |  |  |  |
| UMPSE(max) | 39 | 76 | Unit loads |