

Hardware

| Code | Description | Quantity | Note |
|----------------------|---|----------------------------------|--|
| Basic | Required for basic functionality | | |
| BM-GW | BTMS IOT Gateway | 1 × BM-GW for up to 32 strings | All strings of one UPS should be on the same BM-GW |
| BM-SS | BTMS String master | 1 × BM-SS for each string | |
| BM-HS | BTMS Hall sensor | 1 × BM-HS for each string | Choose the type based on the maximum string current |
| BM-CS | BTMS Cell sensor | 1 × BM-CS for each battery | Choose 2, 6 or 12 V sensors depending on the battery voltage |
| PS-60-24 | BTMS Power supply | 1 × PS-60-24 for each BTMS | One power supply can power several devices, if there are fewer of them than allowed according to the specification. Checks against the total consumption of powered devices. |
| PS-30-12 | BM-GW Power supply | 1 × PS-30-12 for each BM-GW | |
| Optional | Depending on requirements | | |
| BM-MC | BTMS Master controller | 1 × BM-MC for up to 32 strings | |
| BM-C-A1 | BTMS Controller set | 1 × BM-C-A1 for up to 32 strings | Consisting of BM-MC , CAD-232-A2-IQ and software |
| CAD-232-A2-IQ | BTMS COM converter | 1 × BM-CAD per BM-HMI | They require BM-MC |
| COM-PGM | BTMS COM module | 1 × BM-COM for up to 16 BM-CS | For more than 16 BM-CS (up to 32) use 2nd BM-COM |
| BM-LC | BTMS IO expansion module | 1 × BM-LC for up to 8 strings | They require BM-MC |
| BM-TH | BTMS Temperature and humidity sensor | 1 × BM-TH for every string | They require BM-MC |
| BM-GS | BTMS Insulation monitoring sensor | 1 × BM-GS for every string | They require BM-MC and BM-COM |
| BM-HMI | BTMS Human-Machine Interfaces | 1 × BM-HMI for up to 32 strings | They require BM-C-A1 (BM-MC + BM-CAD), 1 per BM-C-A1 |

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| BM-AG | BTMS IOT Aggregator | 1 × BM-AG per Data center | Needed when there are multiple BM-GWs on the Data Center |
| TH-MC | Temperature and humidity monitoring Master controller | 1 × TH-MC for up to 120 temperature-humidity sensors | |
| TM-C-A1 | Temperature and humidity monitoring Controller set | 1 × TH-MC for up to 120 temperature-humidity sensors | Consisting of TH-MC , CAD-232-A2-IQ and software |

System limitations

| Device | Supports up to |
|--------|-----------------------------------|
| BM-AG | unlimited BM-GW |
| BM-GW | 32 × BM-SS, 1 × BM-MC |
| BM-MC | 32 × BM-TH, 4 × BM-LC, 1 × BM-HMI |
| BM-SS | 120 × BM-CS |

Standard cabinets

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| BTMS Cabinet | CAD-232-A2-IQ |
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