

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 Communication converter	1 × BM-CAD per BM-HMI	
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
BM-HMI-BM	BTMS Human-Machine Interfaces	1 × BM-HMI-BM for up to 32 strings	They require BM-C-A1 (BM-MC + BM-CAD), 1 per BM-C-A1
BM-AG	BTMS IOT Aggregator	1 × BM-AG per Data center	Needed when there are multiple BM-GWs on the Data Center

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