



Combiner Box Basic Technical Requirement - Battery-Box Premium HVS / HVM

V1.1

Inverter max. current (A)	Busbar cross area (mm ²)	Busbar length (mm) ^{****}	Sub-line cross area (mm ²)	Main line cross area (mm ²)		Air-switch*	
			length≤8m	length≤10m	length≥10m	Nominal voltage (Vdc)	Nominal current (Adc)
10A	20*4	≥50 or ≥100	≤16	1.5	2.5	≥500V(3S)** or ≥800V(3S)***	10A
20A	20*4	≥50 or ≥100	≤16	2.5	4		20A
30A	20*4	≥50 or ≥100	≤16	4	6		32A
60A	30*4	≥50 or ≥100	≤16	10	16		63A

Remarks: recommended parameters, in case of conflict with local regulation, the local regulation shall prevail

1. * Air-switch (63A) is integrated in BCU, external air-switch is not mandatory.
2. ** For AC coupled inverter, if an external air-switch is used.
3. *** For DC coupled hybrid inverter, if an external air-switch is used.
4. **** ≥50 for 2 systems in parallel; ≥100 for 3 systems in parallel.
5. Main line refers to the DC cable from Busbar to Inverter; Sub-line refers to the DC cable from Battery to Busbar.