

# Heat calculation for STB

## Thermal power dissipation capability:

Enclosure dimensions [mm]			Power dissipation [W]					
W	H	D	20 K	25 K	30 K	35 K	40 K	45 K
800	400	200	65	86	108	131	154	179
800	500	300	73	97	121	147	173	201
800	500	400	84	110	139	168	198	229
800	500	600	111	146	183	222	262	304
800	800	300	102	135	169	205	242	281
800	1000	300	127	168	211	255	301	349
800	1800	400	221	292	366	443	523	606
1000	800	300	131	172	216	262	309	358
1000	900	400	178	236	295	358	423	489
1000	900	600	217	287	360	436	514	595
1000	1200	300	188	248	311	377	445	515
1000	1400	600	276	365	458	554	655	758
1000	1500	400	242	319	401	485	573	663
1000	2000	600	336	443	556	673	795	920
1000	2000	800	385	508	637	772	912	1055
1000	2200	1000	471	622	781	946	1116	1293
1200	1600	400	285	376	472	572	675	782
1400	2000	600	430	563	712	863	1019	1179
1400	2200	800	534	705	885	1072	1265	1465
1600	2200	1000	776	1024	1284	1556	1837	2127

Note 1: The calculated power dissipations are valid for enclosures without ventilation openings.

Note 2: The values 20 K upto 45 K relate to the internal temperature rise  $\Delta t_{1,0}$  of air at the top of the enclosure.