

# Heat calculation for STA

## 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
250	300	160	17	23	29	35	41	48
400	400	200	36	47	59	72	85	98
400	600	200	46	60	76	92	108	126
400	800	300	63	84	105	127	150	174
600	400	300	56	73	92	111	131	152
600	600	400	65	86	108	131	155	179
800	500	400	85	112	141	170	201	233
800	800	300	102	135	169	205	242	280
800	800	400	124	163	205	248	293	339
800	1000	400	155	205	257	311	368	426
1000	500	300	87	115	144	174	206	238
1000	600	400	120	159	199	241	285	330
1000	800	300	133	176	221	267	316	365
1000	1000	400	192	254	319	386	456	527
1000	1000	500	212	280	351	425	502	582
1000	1200	400	228	300	377	457	539	624
1000	1200	600	266	351	440	533	629	728
1200	600	400	154	203	255	309	365	422
1200	600	600	206	271	340	412	487	564
1200	1200	600	287	379	475	576	680	787
1200	1200	1000	402	530	665	806	952	1102

Note 1: 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.

Note 2: The calculated power dissipations are valid for enclosures without ventilation openings.

Note 3: For HYG enclosures the height value H relates to the lower part of the slanted top.