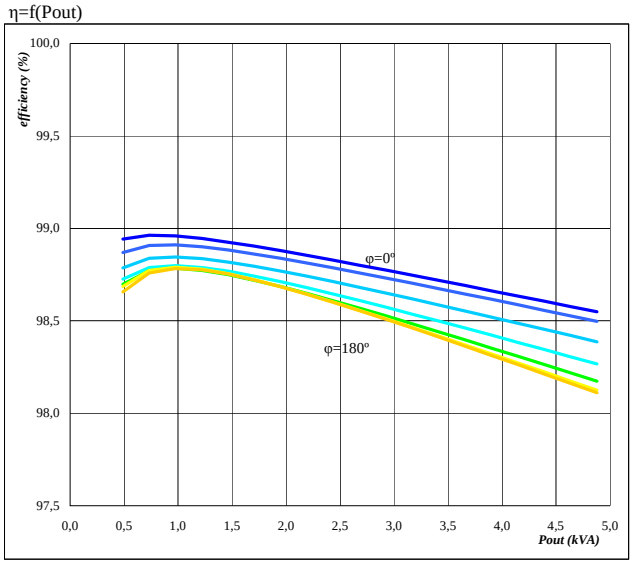
flow3xMNPC 1 — mixed voltage NPC Application — 1200V/25A

Figure 27. per PHASE

Typical efficiency as a function of output power

η=f(Pout)

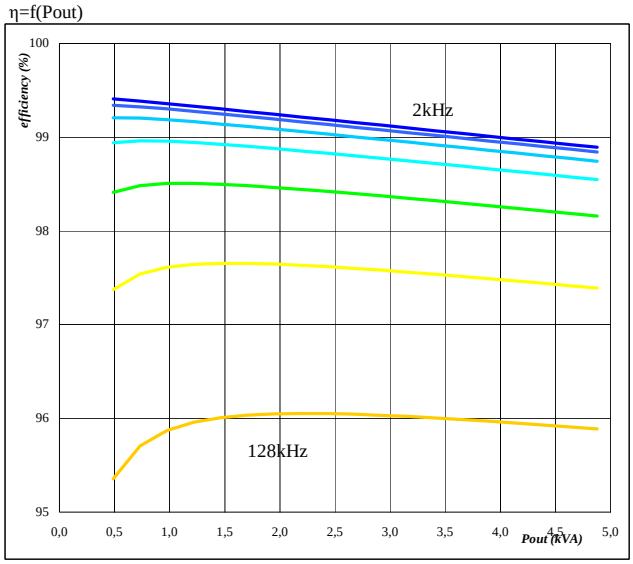


Conditions: T_j= 125 °C
f_{sw}= 16 kHz
DC link= 700 V
parameter: phase displacement
φ from 0 ° to 180 °
in steps of 30 °

Figure 28. per PHASE

Typical efficiency as a function of output power

η=f(Pout)

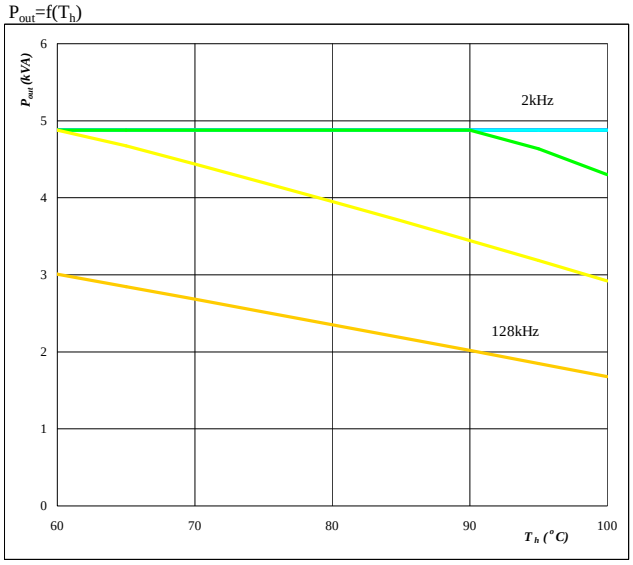


Conditions: T_j= 125 °C φ= 0 °
DC link= 700 V
parameter: Switching freq.
fsw from 2 kHz to 128 kHz
in steps of factor 2

Figure 29. per PHASE

Typical available output power as a function of heat sink temperature

$P_{out}=f(T_h)$

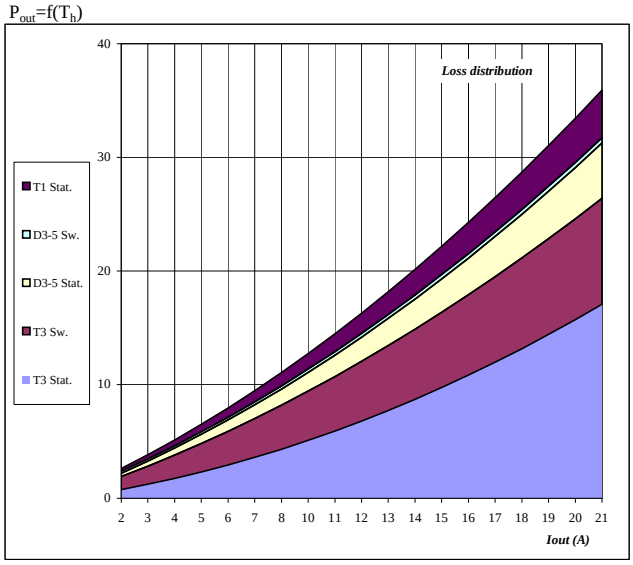


Conditions: T_j= Tjmax-25 °C
DC link= 700 V
φ= 0 °
parameter: Switching freq.
fsw from 2 kHz to 128 kHz
in steps of factor 2

Figure 30. per PHASE

Typical loss distribution as a function of output current

$P_{out}=f(T_h)$

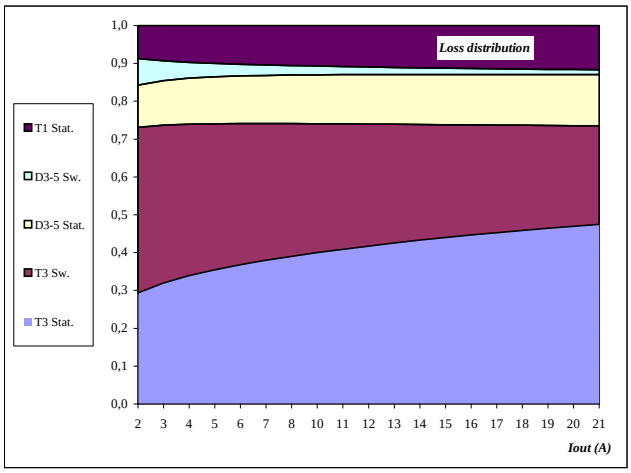


Conditions: T_j= 125 °C
f_{sw}= 16 kHz
DC link= 700 V
φ= 0 °

Figure 31. **per MODULE**

Typical relativ loss distribution as a function of output current

$P_{out}=f(T_h)$



Conditions:

T_j=	125	°C
f_{sw}=	16	kHz
DC link=	700	V
φ=	0 °