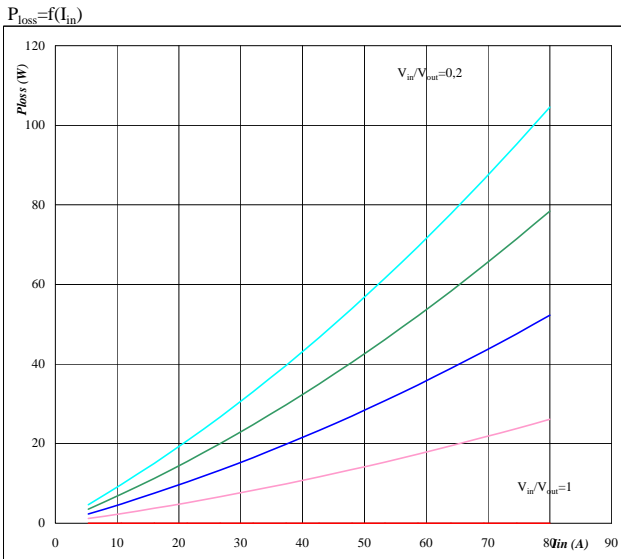
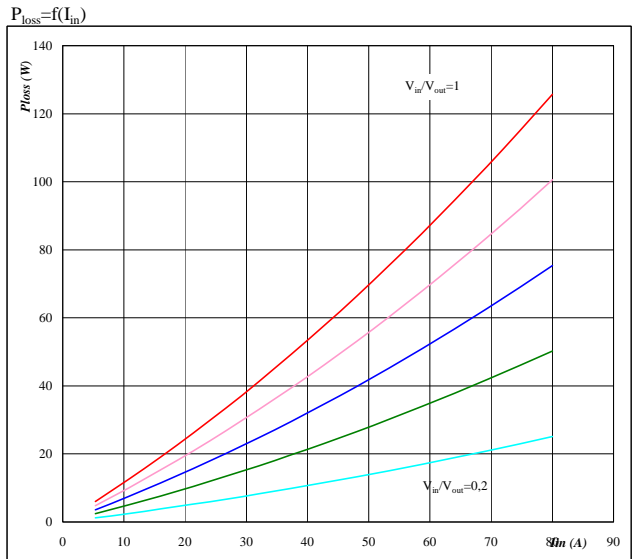


General conditions

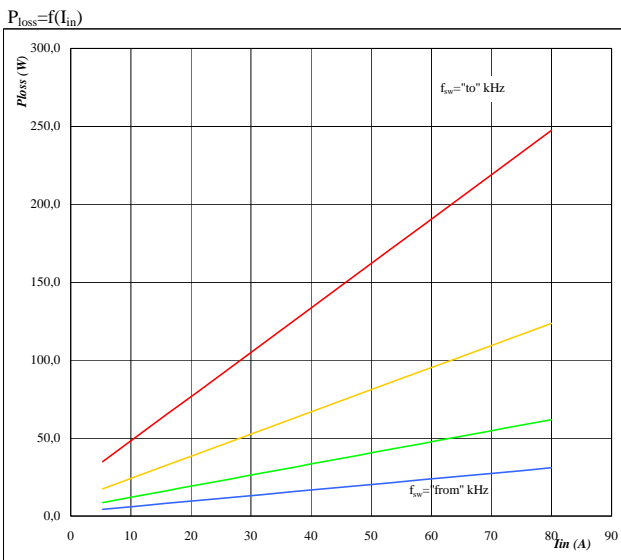
BOOST	
V_{GEon}	= 15 V
V_{GEoff}	= 0 V
R_{gon}	= 4 Ω
R_{goff}	= 4 Ω

Figure 1.
IGBT
Typical average static loss as a function of input current I_{RMS}


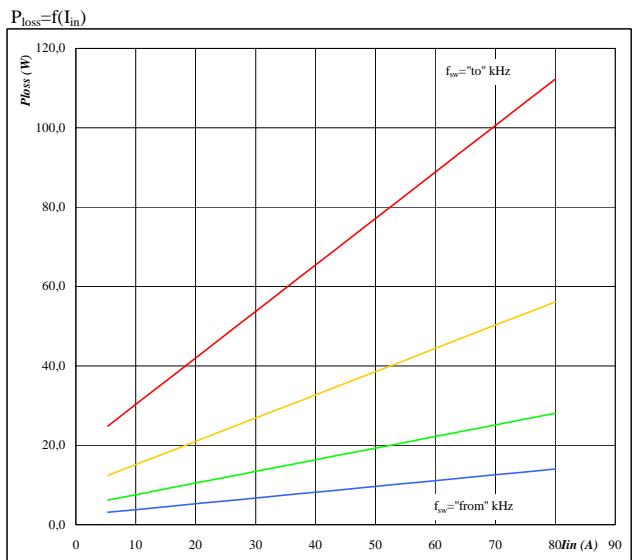
Conditions: $T_j = 125$ °C
 Ratio of input DC voltage to output DC voltage
 parameter: V_{in}/V_{out} from 0,2 to 1,0
 in 0,2 steps

Figure 2.
FWD
Typical average static loss as a function of input current I_{RMS}


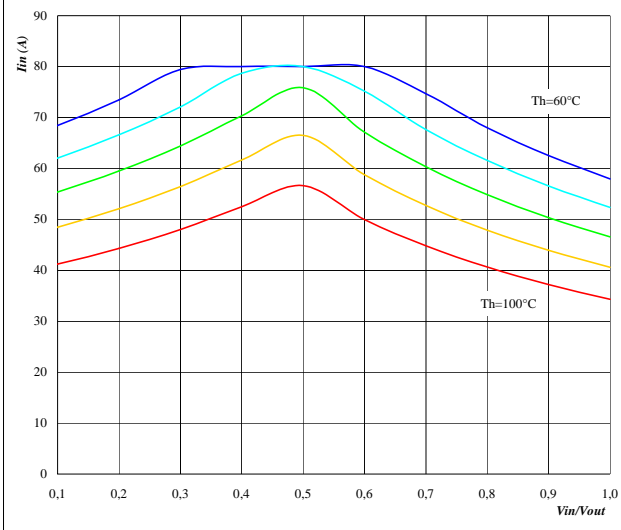
Conditions: $T_j = 125$ °C
 Ratio of input DC voltage to output DC voltage
 parameter: V_{in}/V_{out} from 0,2 to 1,0
 in 0,2 steps

Figure 3.
IGBT
Typical average switching loss as a function of input current


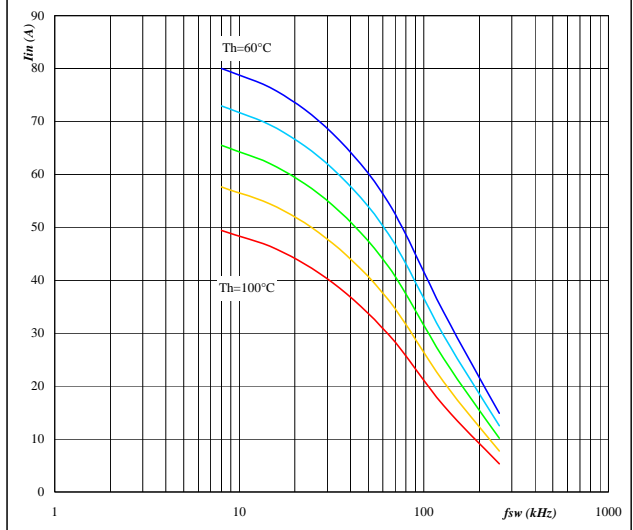
Conditions: $T_j = 125$ °C
 $V_{out} = 350$ V
 Sw. freq. fsw from 16 kHz to 128 kHz
 in steps of factor 2

Figure 4.
FWD
Typical average switching loss as a function of input current


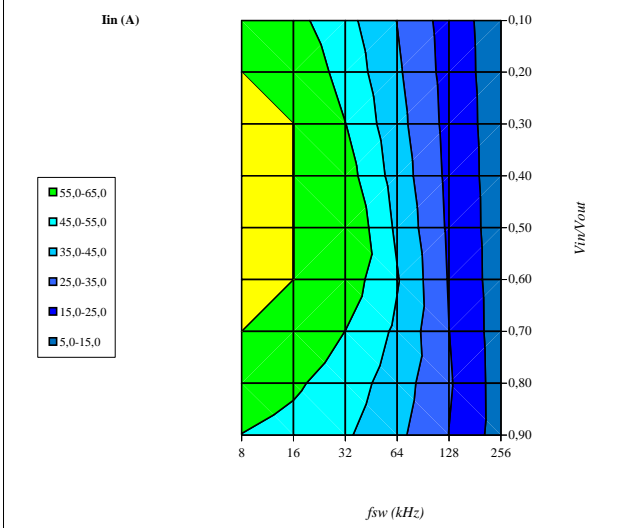
Conditions: $T_j = 125$ °C
 $V_{out} = 350$ V
 Sw. freq. fsw from 16 kHz to 128 kHz
 in steps of factor 2

Figure 5. per PHASE
Typical available input current as a function of
 V_{in}/V_{out}
 $I_{in}=f(V_{in}/V_{out})$


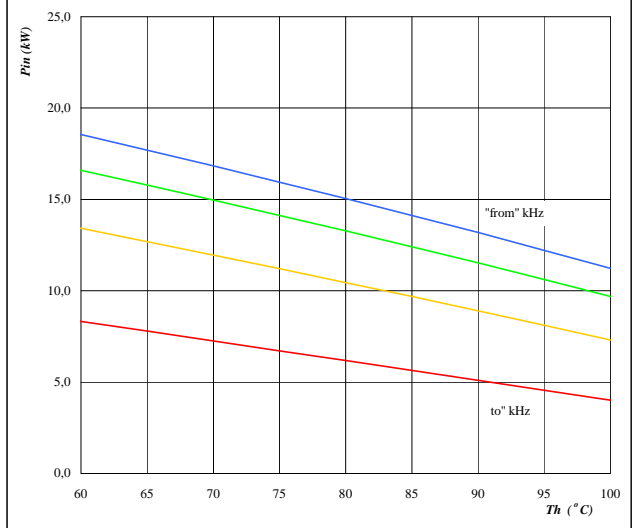
Conditions: $T_j = T_{jmax} - 25^\circ\text{C}$
 DC link= 350 V $f_{sw} = 20$ kHz
 parameter: Heatsink temp.
 Th from 60 °C to 100 °C
 in 10 °C steps

Figure 6. per PHASE
Typical available input current as a function of switching frequency
 $I_{in}=f(f_{sw})$


Conditions: $T_j = T_{jmax} - 25^\circ\text{C}$
 DC link= 350 V $V_{in} = 250$ V
 parameter: Heatsink temp.
 Th from 60 °C to 100 °C
 in 10 °C steps

Figure 7. per PHASE
Typical available input current as a function of
 f_{sw} and V_{in}/V_{out}
 $I_{in}=f(f_{sw}, V_{in}/V_{out})$


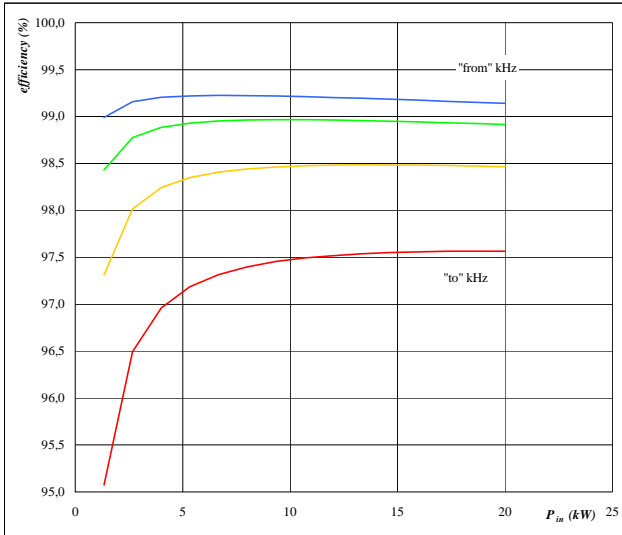
Conditions: $T_j = T_{jmax} - 25^\circ\text{C}$
 DC link= 350 V
 Th= 80 °C

Figure 8. per PHASE
Typical available electric input power as a function of heatsink temperature
 $P_{in}=f(T_h)$


Conditions: $T_j = T_{jmax} - 25^\circ\text{C}$
 $V_{in} = 250$ V DC link= 350 V
 Sw. freq. f_{sw} from 16 kHz to 128 kHz

Figure 9. per PHASE
Typical efficiency as a function of input power

$$\eta = f(P_{in})$$



Conditions: $T_j = T_{jmax} - 25^\circ\text{C}$
 Vin 250 V DC link= 350 V
 parameter:
 Sw. freq. fsw from 16 kHz to 128 kHz