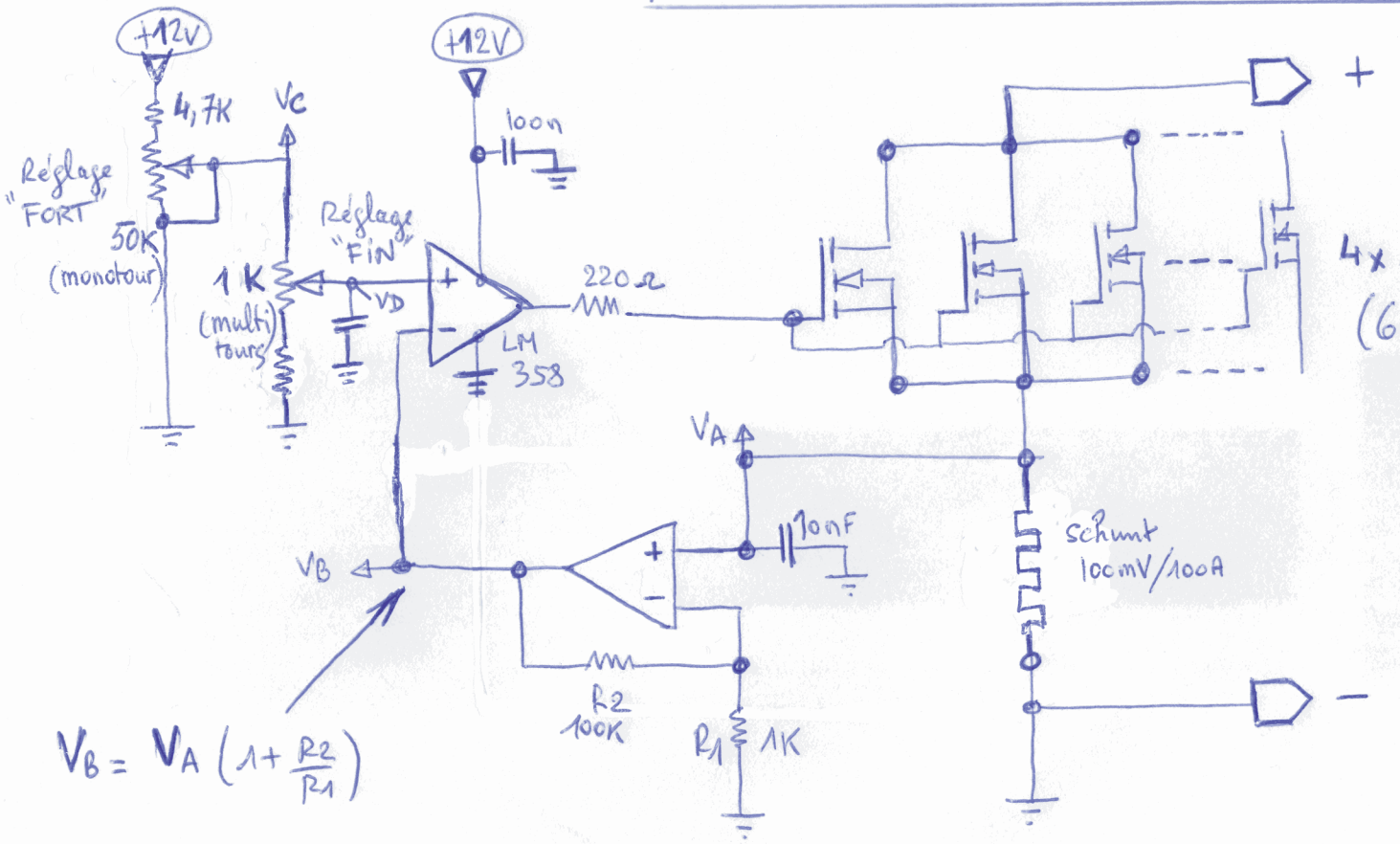
$\begin{cases} 0V < V_C < 10V \\ 0 < V_D < V_C \end{cases}$

BANC DE CHARGE POUR TESTER LES ALIMS DE FORTES PUISSANCES



Permet de tester des Alims 40V/100A

Montage en bain d'huile pour P > 300W

pour P < 300W Ventilation forcée

$2 < V_B < 10V$

$0 < V_A < 100mV$.

$\Rightarrow 1+\frac{R_2}{R_1} = \frac{V_B}{V_A} = \frac{10}{0,1} = 100.$

$\Rightarrow \frac{R_2}{R_1} = 99 \Rightarrow R_1 = \frac{R_2}{99}$

$R_1 + R_2 = \frac{V_B}{100\mu A} = \frac{10}{100\cdot10^{-6}} = 100K\Omega$

Si $V_A = 1mV$ ($\Rightarrow 1A$) $\rightarrow V_B = 100mV$
$V_A = 10mV$ ($\Rightarrow 10A$) $\rightarrow V_B = 1V$
$V_A = 50mV$ ($\Rightarrow 50A$) $\rightarrow V_B = 5V$
$V_A = 100mV$ ($\Rightarrow 100A$) $\rightarrow V_B = 10V$.

$\rightarrow R_1 = 100K - 99R_1$

$\Rightarrow R_1(1+99) = 100K \Rightarrow \boxed{R_1 = \frac{100K}{100} = 1K} / R_2 = 99R_1 \# 100K$