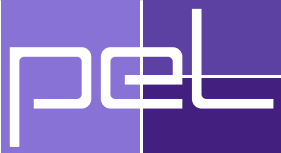


<i>Type of Document</i> Technical Report	<i>Document ID</i> EPFL-PEL – EE-465 Report 1	<i>Classification</i> Internal	<i>Status</i> Final Report
	<i>Author(s) Name(s)</i> Name Surname SCIPER ID	<i>Function</i> MSc Student(s)	
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<i>Title</i> <b>FIRST REPORT</b>			
<i>Course Name</i> EE-465 Industrial Electronics I			
<i>Keywords</i> Boost converter, open-loop operation, closed-loop operation, PWM			

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The total length of this report, including questions, answers, tables and figures, shall not exceed 10 pages. It is mandatory for this report to be compiled in TeX, with the provided template.

# 1 OPEN-LOOP BOOST CONVERTER

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6. ...to be filled in...

**Table 1** Parameters set and design requirements for the boost converter.

$V_{C,PV}$	200-400 V	$f_{sw}$	10 kHz	$\Delta I_{L,B,pp}$	10 A	$\Delta V_{DC,pp}$	5 V
$P_{nom}$	20 kW	$V_{DC,nom}$	750 V	$R_B$	2m $\Omega$		

## 2 CONTINUOUS-TIME CONTROL OF THE INPUT BOOST STAGE

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4. ...to be filled in...

### 3 CONTROL DISCRETIZATION

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2. ...to be filled in...

3. ...to be filled in...

4. ...to be filled in...