

BOOST CONVERTER

ABSTRACT

5 A boost converter, which allows stable control without
breaking or losing the output balance of each converter
unit (3,3A) in parallel, has current transformers (22,23)
which are connected in series respectively to a switching
element (7) and a diode (8). The current transformers
10 (22,23) detect current and allow current detection signals
to be output from current detection circuits. The current
detection signals obtained from one converter unit (3) are
compared with the current detection signals obtained from
another parallel converter unit (3A) by a comparing circuit
15 (33). The DC output voltage V_{out} of each converter unit can
be controlled to be equal to each other.

Figure 1