

OUTPUT SPECIFICATIONS

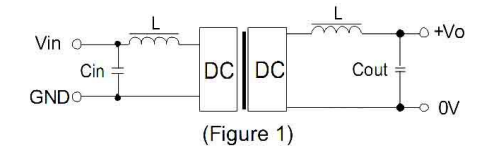
Output Specifications					
Parameter	Symbol	Min	Max	Unit	Notes
Output Voltage	V _o			V	
				±	
Output Current	I _o			A	
				±	
Output Power	P _o			W	
Efficiency	η			%	
Temperature	T _{amb}			°C	

APPLICATION NOTE

Requirement on output load

The output load must be connected to the output terminals. The load must be able to handle the maximum output current and power. The load must be connected to the output terminals through a fuse or a circuit breaker to protect the converter from over-current and over-temperature.

Recommended circuit



The recommended circuit diagram shows a two-stage DC-DC converter. The first stage is a buck converter with an input capacitor Cin and an inductor L. The second stage is a boost converter with an inductor L and an output capacitor Cout. The output voltage is +Vo and the ground is 0V.

EXTERNAL CAPACITOR TABLE (Table 1)

Vin (VDC)	Cin (uF)	Single Vout (VC)	Cout (uF)
3.3/5	4.7	3.3/5	10
12	2.2	9	4.7
24	1	12	2.2
-	-	15/24	1

Output Voltage Regulation and Over-voltage Protection Circuit

The output voltage regulation and over-voltage protection circuit is used to maintain the output voltage within a specified range and to protect the converter from over-voltage. The circuit consists of a voltage divider network connected to the output terminal +Vo and a feedback loop connected to the control pin of the converter.