

# VC1255 PWM Controller

## Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Notes
Supply Voltage	V <sub>cc</sub>	30	V	
Supply Voltage (operational)	V <sub>cc</sub>	18	V	
I/O Input Voltage	V <sub>io</sub>	18	V	
AC Input Voltage	V <sub>ac</sub>	18	V	
DC output current (continuous)	I <sub>o</sub>	55	A	
DC output current (peak)	I <sub>omax</sub>	-	A	1
Operating temperature range	T <sub>op</sub>	-40 to 220	F	2
Storage temperature		-40 to 300	F	

Notes

- 1 Control unit utilizes built in test equipment for overload protection
- 2 Control unit utilizes built in test equipment for over-temperature protection

## Electrical Characteristics

( V<sub>cc</sub> = +14V, T<sub>a</sub> = 85°C unless otherwise specified )

Parameter	Symbol	Value	Unit	Notes
Temperature set range	T <sub>s</sub>	150 to 210	F	
Loop gain	G <sub>l</sub>	2	V/deg F	
I/O gain	G <sub>io</sub>	18	deg F/ V	
AC power	P <sub>ac</sub>	50	%	
Voltage drop (55A)	V <sub>io</sub>	325	mV	
Efficiency (min@55A)	<i>n</i>	97	%	

