

VC1285 PWM Controller

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Notes
Supply Voltage	V _{cc}	30	V	
Supply Voltage (operational)	V _{cc}	18	V	
I/O Input Voltage	V _{io}	18	V	
AC Input Voltage	V _{ac}	18	V	
DC output current (continuous)	I _o	85	A	
DC output current (peak)	I _{omax}	-	A	1
Operating temperature range	T _{op}	-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_{cc} = +14V, T_a = 85°C unless otherwise specified)

Parameter	Symbol	Value	Unit	Notes
Temperature set range	T _s	150 to 210	F	
Loop gain	G _l	2	V/deg F	
I/O gain	G _{io}	18	deg F/ V	
AC power	P _{ac}	50	%	
Voltage drop (85A)	V _{io}	325	mV	
Efficiency (min@85A)	<i>n</i>	97	%	

