

VC1250p35 PWM Controller

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Notes
Supply Voltage	Vcc	30	V	
Supply Voltage (operational)	Vcc	18	V	
I/O Input Voltage	Vio	18	V	
AC Input Voltage	Vac	18	V	
DC output current (continuous)	Io	55	A	
DC output current (peak)	Iomax	-	A	1
Operating temperature range	Top	-40 to 220	F	2
Storage temperature		-40 to 300	F	

Notes

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

Electrical Characteristics

(Vcc = +14V, Ta = 85°C unless otherwise specified)

Parameter	Symbol	Value	Unit	Notes
Temperature set range	Ts	150 to 210	F	
Loop gain (Fan an WP)	G1	2	V/deg F	
Fan output at idle	Po	5	%	
WP output at idle	Po	35	%	
Fan Temp offset at full speed	To	+3.5	deg	
WP Temp offset at full speed	To	0	deg	
I/O gain	Gio	18	deg F/ V	
AC power	Pac	50	%	
Voltage drop (50A)	Vio	300	mV	
Efficiency (min@50A)	n	97	%	

