

DC-DC Converter 1KW Specification

Revision	Date Issued (DD/MM/YY)	Description	Released by	Approved by
V0	25/3/2022	First Released	Shell Li	C.J.Chu

Specifications		Value	Range	Unit	Remark
Electrical	Input	Rated Input Voltage	80	65~100	VDC
		Rated Input Current	12		A
	Output	Rated Output Voltage	13.6	±0.6%	VDC
		Rated Output Current	74		A
		Rated Output DC Power	1000		W
		Efficiency	>90		%
		Ripple & Noise	680		mVp-p
Protection	Input	Input Over-voltage Protection(OVP)	105	±5%	VDC
		Input Under-voltage Protection(UVP)	60	±5%	VDC
		Output Over Current Protection(OCP)	17	±2%	A
	Output	Output Over Current Protection(OCP)	80	±2%	A
		Short circuit protection	100		A
	Other	Over temperature protection(OTP)	85		°C
Feature		System indicator	N/A		(Standby)
			N/A		(Error)
		Input reverse protection	Y		
Safety and EMC		Isolation voltage	I/P-O/P:1.5kVac I/P-FG :2kVac O/P-FG:0.5kVac		
		Insulation resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC /25°C/70% RH		
		EMI/EMC	EN15194; GBT24347		
Environmental		Operating temperature	-20°C~85°C		
		Working humidity	5% to 95% RH		
		Cooling method	Natural Air or Forced Air (To be verified)		
Mechanical		IP rating	IP54		
		Application	Electric Rail Car Mover		