

DC-DC Converter 240W Specification (Isolated)

Revision	Date Issued (DD/MM/YY)	Description	Released by	Approved by
V0	9/3/2022	First Released	Shell Li	
V1	15/3/2022	Modified	Shell Li	C.J.Chu

Specifications		Value	Range	Unit	Remark	
Electrical	Input	Rated Input Voltage		36~84	VDC	
		Rated Input Current	36V/7.4A; 84V/3.2A		A	Estimated value ,will be fixed before MP
	Output	Rated Output Voltage	12	±5%	VDC	
		Rated Output Current	20	±2%	A	35A(Peak)
		Rated Output DC Power	240		W	
		Efficiency	>90		%	
		Ripple & Noise	120		mVp-p	
Protection	Input	Input Over-voltage Protection(OVP)	100	±5%	VDC	
		Input Under-voltage Protection(UVP)	32	±5%	VDC	
		Output Over Current Protection(OCP)	9.4	±2%	A	
	Output	Output Over Current Protection(OCP)	21	±2%	A	
		Short circuit protection	25		A	
	Other	Over temperature protection(OTP)	90		°C	
Feature		System indicator	N/A		(Standby)	
			N/A		(Error)	
		Input reverse protection	Y			
		Isolated/Non-isolated	Isolated			
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 at 25°C/70% RH			
		EMI/EMC	CE			
Environmental		Operating temperature	-20°C~85°C			
		Working humidity	5% to 95% RH			
Mechanical		IP rating	IP67			
		Cooling method	Heat sink			
		Dimension(L*W*H)	210*100*50		mm	(Estimated)