

EPSCNA series DC/DC Transit Converter

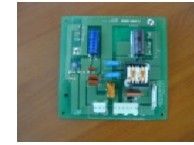
The EPSCNA series of DC/DC converter provides stable and reliable DC to DC power conversion for Transit application.

Features

- Compact DC/DC power modules
- Optimum wide input voltage range for Transit/ Railway related Instruments, input voltage: 60 to 160
- Anti-vibration and shock resistance characteristics conforming to IEC61373
- Compliant to IEC61000 EMC standards



Converter in IP55 enclosure



Converter in PCB module



Converter in 19" cassette

Technical specifications

MODEL (50W)			EPSCNA-50/5	EPSCNA-50/12	EPSCNA-50/15	EPSCNA-50/24
Input	Voltage Range	VDC	60 to 160			
	Efficiency (typ)	%	85	86		
	Current (*1)	A	0.55			
Output	Nominal Voltage	VDC	5	12	15	24
	Maximum Current	A	10	4.2	3.4	2.1
	Maximum Power	W	50			
	Voltage Setting Accuracy	%	± 1			
	Maximum Line Regulation	mV	20	48	60	96
	Maximum Load Regulation	mV	40	96	120	192
	Temperature Coefficient	%/°C	0.02			
	Maximum Ripple & Noise	mVp-p	100	150		240
	Voltage Adjustable Range	VDC	-10 / +20	-10 / +10		
MODEL (100W)			EPSCNA-100/5	EPSCNA-100/12	EPSCNA-100/15	EPSCNA-100/24
Input	Voltage Range	VDC	60 to 160			
	Efficiency (typ)	%	85	88		
	Current (*1)	A	1.08			
Output	Nominal Voltage	VDC	5	12	15	24
	Maximum Current	A	20	8.4	6.7	4.2
	Maximum Power	W	100			
	Voltage Setting Accuracy	%	± 1			
	Maximum Line Regulation	mV	20	48	60	96
	Maximum Load Regulation	mV	40	96	120	192
	Temperature Coefficient	%/°C	0.02			
	Maximum Ripple & Noise	mVp-p	100	150		240
	Voltage Adjustable Range	VDC	-10 / +20	-10 / +10		

Technical Specification

MODEL (200W)		EPSCNA-200/5	EPSCNA-200/12	EPSCNA-200/15	EPSCNA-200/24	
Input	Voltage Range	VDC	60 to 160			
	Efficiency (typ)	%	85	88		
	Current (*1)	A	2.16			
Output	Nominal Voltage	VDC	5	12	15	24
	Maximum Current	A	40	16.7	13.4	8.4
	Maximum Power	W	200			
	Voltage Setting Accuracy	%	± 1			
	Maximum Line Regulation	mV	20	48	60	96
	Maximum Load Regulation	mV	40	96	120	192
	Temperature Coefficient	%/°C	0.02			
	Maximum Ripple & Noise	mVp-p	100	150		240
	Voltage Adjustable Range	VDC	-10 / +20	-10 / +10		

Common Specification

Function	OverCurrent Protection	A	105 - 140
	Over Voltage Protection	VDC	125 - 145 (Inverter shutdown method)
	Remote Sensing		Allow
	Remote ON/OFF Control		SHORT: ON OPEN : OFF)
	Series Operation		Allow
Environ-ment	Operating Temperature	°C	-40 - +55
	Storage Temperature	°C	-40 - +70
	Operating Humidity	%RH	5 - 95 (Non Condensing)
	Storage Humidity	%RH	5 - 95 (Non Condensing)
	Vibration		At No Operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825mm Constant (Maximum 49.0m/s ²) X,Y,Z 1 hour each IEC61373 - Category 1 - Grade B
	Shock		196.1m/s ² IEC61373 - Category 1 - Grade B
	Cooling		Convection Cooled
Isolation	Withstand Voltage		Input-Baseplate : 1.5kVAC (20mA), Input-Output : 3.0kVAC for 1min.
			Output-Baseplate : 500VAC for 1min. (20mA).
	Isolation Resistance		More than 100MΩ at 25°C and 70%RH, 500VDC
Standards	Safety		Approved by UL60950-1, CSA60950-1, EN60950-1
EMC Immunity	Electrostatic Discharge		IEC61000-4-2
	Radiated Electromagnetic		IEC61000-4-3
	Electrical Fast Transient/ Bust		IEC61000-4-4
	Surge		IEC61000-4-6
	Conducted Electromagnetic		IEC61000-4-8