

DESCRIPTION : 20-30W 1.5KVDC isolated Wide Input Voltage DC/DC Converters

The rated output power of PP20DC/PP30DC converters is 20W,30W,the outline dimensions is "50.8*25.4*12.7", 2:1 ,4:1 input voltage range,the voltage range is 9.5-18V,18-36V,36-72V,9-36V、 18-75V,66-160V.The accuracy of the converter can reach ±1%,it can be widely used in telecommunications,railway transportation, Auto industrial,instrument and etc.

FEATURES

20-30W output power	Long-term short circuit protection, Automatic recovery	High power density, high conversion efficiency
Miniaturized package	With remote control and output adjustment function	RoHS compliant

MODEL SELECTION

Part Number	Input		Output		Efficiency(Typ) %
	Voltage (VDC)		Voltage (VDC)	Current (A)	
	Rated	Range values			
PP20DC12S03	12(2:1)	9.5-18	3.3	6	90
PP20DC12S05	12(2:1)	9.5-18	5	4	90
PP20DC24S03	24(2:1)	18-36	3.3	6	90
PP20DC24S05	24(2:1)	18-36	5	4	90
PP20DC24S12	24(2:1)	18-36	12	1.7	90
PP20DC24S15	24(2:1)	18-36	15	1.3	90
PP20DC24S24	24(2:1)	18-36	24	0.83	90
PP20DC48S03	48(2:1)	36-75	3.3	6	90
PP20DC48S05	48(2:1)	36-75	5	4	90
PP20DC48S12	48(2:1)	36-75	12	1.7	90
PP20DC48S24	48(2:1)	36-75	24	0.83	90
PP20DC48S15	48(2:1)	36-75	15	1.3	90
PP20DC24S05W	24(4:1)	9-36	5	4	90
PP20DC24S12W	24(4:1)	9-36	12	1.7	90
PP20DC24S24W	24(4:1)	9-36	24	0.83	90
PP20DC48S18W	48(4:1)	18-75	18	1.1	90
PP30DC24S05	24(2:1)	18-36	5	6	90
PP30DC24S12	24(2:1)	18-36	12	2.5	90
PP30DC48S03	48(2:1)	36-75	3.3	6	90
PP30DC48S05	48(2:1)	36-75	5	6	90
PP30DC48S12	48(2:1)	36-75	12	2.5	90
PP30DC24S05WB	24(4:1)	9-36	5	6	90
PP30DC24S09WB	24(4:1)	9-36	9	3.3	86
PP30DC24S12WB	24(4:1)	9-36	12	2.5	90
PP30DC24S15WB	24(4:1)	9-36	15	2	90
PP30DC48S12WB	48(4:1)	18-75	12	1.7	90
PP30DC48S24WB	48(4:1)	18-75	24	1.25	85

The part no. With suffix "B",please refer to b package mechanical dimensions,for example : PP20DC24S05B

Input voltage 9-18VDC ,start-up voltage 9.5-18VDC , input voltage 9-36VDC ,start-up voltage 9.5-36VDC.

All specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified.

INPUT CHARACTERISTICS

parameter	conditions	Min	Typ	Max	Units
Input voltage		9.5	12	18	VDC
Input voltage		18	24	36	VDC
Input voltage		36	48	75	VDC
Input voltage		66	110	160	VDC
Remote control	CNT pin is floating or connect to TTL high level		Opened		VDC
Remote control	CNTconnect to -Vin		Closed		

OUTPUT CHARACTERISTICS

parameter	conditions	Min	Tvo	Max	Units
Output voltage accuracy	V01			±1	%
Output voltage accuracy	V02、 V03			±3	%
Voltage regulation	V02、 V03 Track V01			±10(V01)	%
Line regulation	V01			±0.2	%
Line regulation	V02、 V03			±1.5	%
Load regulation	V01			±0.5	%
Load regulation	V02、 V03			±4.0	%
Dynamic Response	50~75% Load		4%Vo Overshoot		%

OUTPUT CHARACTERISTICS

parameter	conditions	Min	Typ	Max	Units
Dynamic Response	50~25% Load		400µS Recovery Time		%
Ripple and noise	V _O ≤5VDC			50	mVp-p
Ripple and noise	other			100	mVp-p
Ripple and noise	V _O ≥48VDC			200	mVp-p
Temperature drift coefficient			±0.02		%/°C

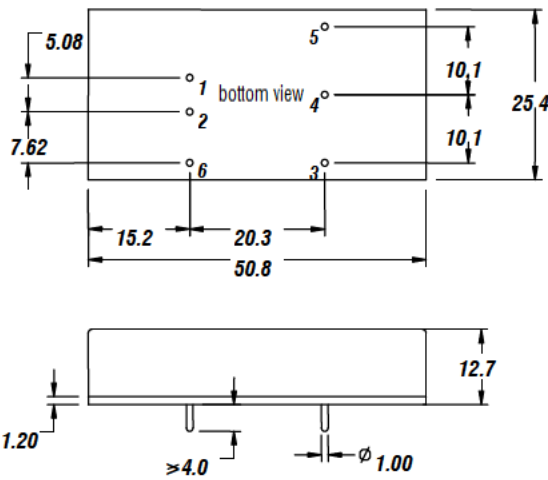
TEMPERATURE CHARACTERISTICS

parameter	conditions	Min	Typ	Max	Units
Isolated voltage	Input-Output			1500	VDC
Isolated voltage	Input-case			1500	VDC
Isolated voltage	Output-case			500	VDC
Switch frequency			330		KHZ
Mean time between failures	Mil HDBK 217F T _c =25°C		2×10 ⁶		
case temperature		-40		+95	°C
Storage temperature		-55		+125	°C
Relative humidity		10		90	%
short circuit protection		Long-term short circuit protection, Automatic recovery			

- Module in every environment temperature rating, case temperature under shall not

MECHANICAL DIMENSIONS

DIP Package



Units : mm

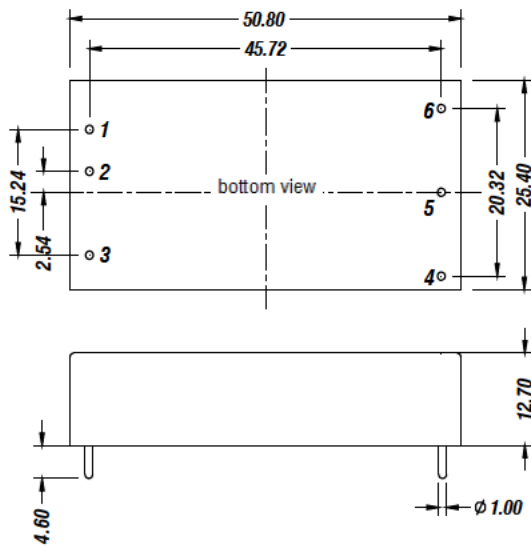
Tolerance:±0.2mm

PIN CONNECTION

PIN	Single
1	+Vin
2	-Vin
3	-V _O
4	TR M
5	+V _O
6	CNT

B Package MECHANICAL DIMENSIONS

DIP Package



Units : mm

Tce:±0.2mm

B Package PIN CONNECTION

PIN	Single
1	+Vin
2	-Vin
3	CNT
4	TRIM
5	GND
6	+V _O

MODEL SELECTION

