TDB 5-25W

TDB 5-25W Solar photovoltaic power series
DC-DC Isolated Converters



特性 Features

- 宽电压输入范围100-1000VDC — Wide voltage input range 100-1000VDC
- 高可靠性 长寿命设计 — High reliability, long life design
- 高效率 — high efficiency
- 工业级技术产品设计 — Industrial-grade technical product design
- 优异的输出短路，过温保护功能 — Output short-circuit, over-temperature protection

条件：除特殊指定外，所有参数测试条件为：室温25°C,标称输入电压，纯阻性标称负载
Condition: All specifications are tested under the room temperature 25°C, Normal input voltage and pure resistive normal load.

输入特性 Input Characteristic

额定值 (Rated)	电压范围 (Voltage Range)
600 VDC (额定值 Rated)	100-1000 VDC

输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	± 1%
源效应 (Source effect)	± 0.5%(Typ)
负载调整率 (10%~100%) (Load Regulation<main>)	± 2%
最小负载 (Minimum load)	0%
输出波纹+噪声(峰-峰值) (Output ripple+noise)	100mv(typ)(20MHz Bandwidth)

输出过流保护 (Output overcurrent protection)	≥1.1倍
输出电流 (Output Current)	0-5A 任选 (For option)
输出电压 (Output Voltage)	5-24VDC
功率 (Power)	5-25W

一般特性 General Characteristic

工作频率 (Switching Frequency)	65-100KHz		环境特性 (Environmental Characteristics)	工作壳温 (Case Temperature)	(工业品) Industry -25 – +85°C (军I) Military I -40 – +85°C (军II) Military II -55 – +85°C
绝缘电阻 (Isolation Resistance)	200MΩ				
MTBF	> 500000 h			存储温度 (Storage Temperature)	(工业品) Industry -45 – +105°C (军I) Military I -55 – +105°C
绝缘强度 (Isolation Voltage)	输入-输出 (Input-Output)	>2000VDC			
	输入-外壳 (Input-Case)	>2000VDC			
	输出-外壳 (Output-Case)	>500 VDC			

保护特性 General Characteristic

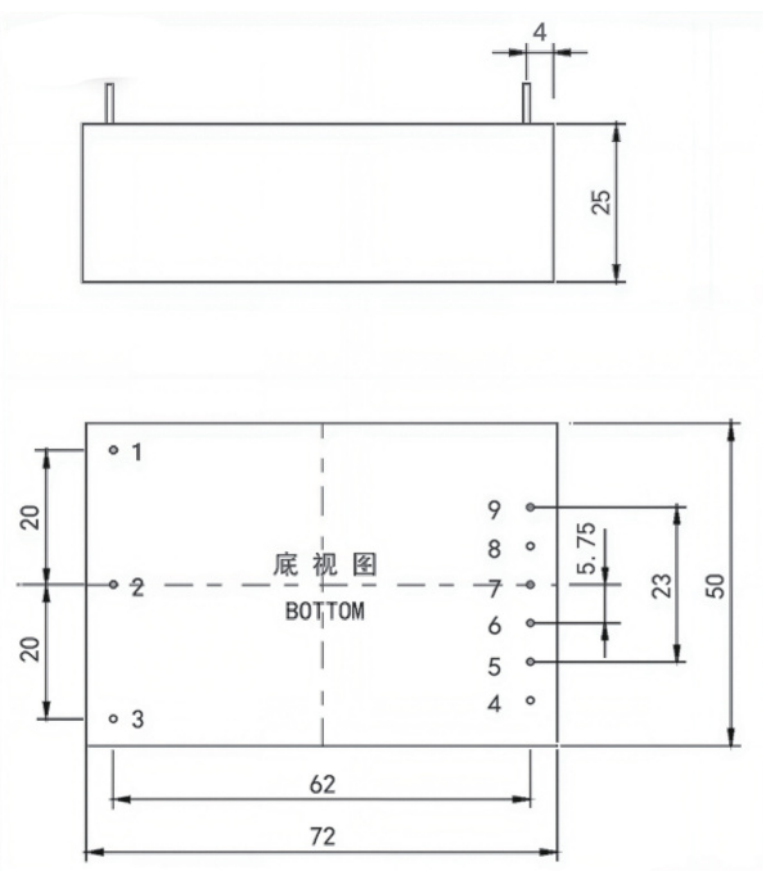
- ★ 输入欠压保护(Input under voltage protection)
- ★ 输入过压保护(Input over voltage protection)
- ★ 过温保护(Over temperature protection)
- ★ 输出过流保护(Output over current protection)
- ★ 输出短路保护(Output short circuit protection)

	输入电压(Vdc) Input voltage	输入电压范围 Input voltage Range	输出电压（Vdc） Output voltage	输出电流（A） Output current(A)	纹波PK-PK（mv） Ripple and noise	效率(Typ) Efficiency(Typ)	型号 Models
单路 Single Channels Output	600	100-1000	05	1	50	70%	TDB5-600S05
	600	100-1000	12	0.42	50	75%	TDB5-600S12
	600	100-1000	24	0.23	50	78%	TDB5-600S24
	600	100-1000	05	2	50	70%	TDB10-600S05
	600	100-1000	12	0.9	50	75%	TDB10-600S12
	600	100-1000	24	0.45	50	78%	TDB10-600S24
	600	100-1000	05	3	50	70%	TDB15-600S05
	600	100-1000	12	1.25	50	75%	TDB15-600S12
	600	100-1000	24	0.625	50	78%	TDB15-600S24
	600	100-1000	05	4	50	70%	TDB20-600S05
	600	100-1000	12	1.66	50	75%	TDB20-600S12
	600	100-1000	24	0.83	50	78%	TDB20-600S24
	600	100-1000	05	5.0	50	70%	TDB25-600S05
	600	100-1000	12	2.0	50	75%	TDB25-600S12
	600	100-1000	24	1.0	50	78%	TDB25-600S24

■说明1：输出纹波噪声（峰值-峰值）采用的是87-88页附录四模块电源测试说明
Output ripple noise (Peak-Peak) is adopted the module power supply test instruction on the page 87-88.

■说明2：仅列出典型型号，其它型号，请确定功率、输入电压及输出电压，致电我公司 400-019-3997
Only typical models listed. If you need other model, please conform the power, input voltage and output voltage, then phone us +86 400-019-3997

外形尺寸以及引脚定义 Mechanical drawing and pin definition



单位(Unit):mm

引脚 PIN	单路 SING
1	+Vin
2	–Vin
3	NP
4	NP
5	–Vo
6	NP
7	NP
8	NP
9	+Vo