



### ◆Feature

- . Small size, High efficiency, High reliability, Long lifetime;
- . Ip66 rating;
- . Working temperature  $-25^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ;
- . Protection: Overload, Over-voltage, Short-circuit protection;
- . Typical efficiency: 83.5%;
- . Low standby power, min to 0.3W;
- . Start delay design, which can reduce the starting current when multiple simultane start;
- . UL\IP66 certifide, ROHS compliant;
- . Low output ripple noises.

### Functional parameter

Model Number		VB-12030D018			
Out put	DC Voltage	12V			
	Output range of constant current	/			
	Rated current	2.5A			
	Range of the current	0~2.5A			
	Rated power	30W			
	Ripples and Noise(max.)	120mVp-p			
	Voltage tolerance	$\pm 4\%$			
	Line regulation	$\pm 0.5\%$			
	Load regulation	$\pm 1\%$			
	Set up and rise time	3000ms, 50ms (When fully loaded) 110Vac			
Holding time (Typ.)	15ms (When fully loaded) 110Vac				
In put	Range of Voltage	90~130Vac or 124~184Vdc			
	Range of frequency	47~63Hz			
	Power factor	PF $\geq 0.5$ /110Vac(When fully loaded)			
	Efficiency (Typ.)	83.5%			
	AC current	0.42A/120Vac			
	Inrush current (Typ.)	Cold start:15A/120Vac			
	Leakage current	Between output and earth:0.25mA/120Vac ;Between case and earth:0.75mA/120Vac			
Protection	THD	/			
	Overloading	100% to 140% of the rated output power Protection mode: Restrict the current,self-recovery when exceptional loading be removed.			
	Short circuit	Protection type: Hiccup mode,self-recovery when exceptional loading be removed.			
	Overvoltage	/ / / / / / / / /			
	Over temperature	100 $^{\circ}\text{C} \pm 10^{\circ}\text{C}$ (RTH2) Protection mode: Power off the output voltage and re-start			
Environment	Working temperature	$-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$			
	Working humidity	20%~90%RH, No condensation			
	Storage temperature and humidity	$-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$ , 25%~85%RH			
	Temperature coefficient	$\pm 0.05\%/^{\circ}\text{C}$ (0~40 $^{\circ}\text{C}$ )			
Safety and regulatory and EMC	Vibration-proof	10-300Hz, 1G 10minutes/cycle, X, Y, Z axis each 60minutes			
	Safety and regulatory	Conform UL8750, UL60950, accord with Ip66 rating.			
	HI-POT	I/P-O/P:3.75KVAC I/P-FG:1.875KVAC O/P-FG:0.5KVAC I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
	Insulation resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25 $^{\circ}\text{C}$ /70%RH			
	EMI	/			
	Harmonic current	/			
Others	EMS	/			
	MTBF	$\geq 40$ Khrs, MIL-HDBK-217F (25 $^{\circ}\text{C}$ )			
	Dimension	212X36.5X27mm(L*W*H)			
	Package	0.5Kg/PCS; 50PCS/25Kg/box; (325X260X270mm)			
Structure (mm)	Wire	Input: VDE H03VV-F 3G0.75mm <sup>2</sup> black, length1 $\times$ 200mm, output: VDE H03VV-F 2*0.75mm <sup>2</sup> white, length1 $\times$ 200mm			

Desi gned by		Stand ardi zat ion		D018 spec	Version: 1.0
Corr ect ed by		Appr oved by			
Checked by					