

EK1115018FS

Constant Voltage Driver

Summary

EK1115018FS The power supply is applied to Ultra-thin light BOX, LED lighting, industrial equipment, electronic equipment, household appliances, etc.. small size, high efficiency, stability, and reliability. Power supply has output over current protection, output short circuit protection, over temperature protection. The power supply uses the optimal design scheme, so that the power supply efficiency is increased by up to 84%, which greatly saves energy.



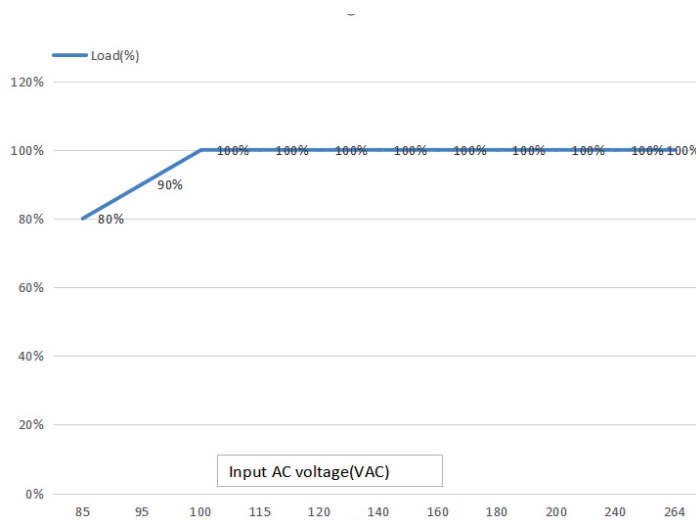
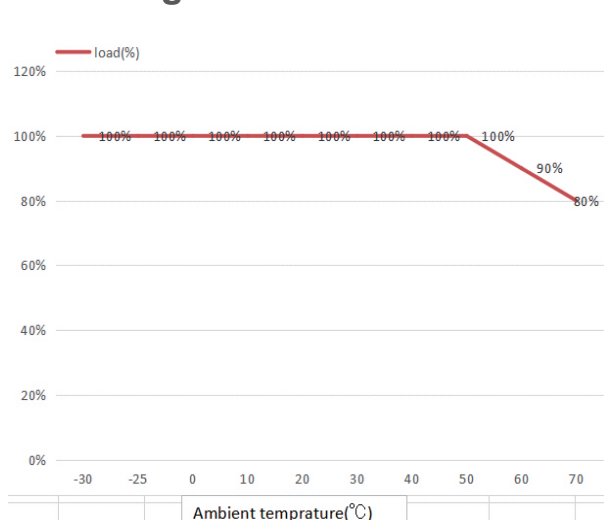
Product Features

- Wide operating temperature range
- Low standby power consumption
- Output over-voltage protection
- Output over-current protection
- Output short circuit protection
- Over temperature protection
- IP20
- Up to 84% efficiency
- 2 years warranty

Dimension (mm)



Derating Curve



Electrical specification

Model No.		EK1115018FS
Output	DC voltage	12V
	Rated current	1.5A
	Load current range	0~1.5A
	Rated power	18W
	Ripple & noise	120mV Vp-p
	Adjustable voltage	-
	Regulation accuracy	±1%
	Load regulation accuracy	±0.5%
	Source regulation accuracy	±0.5%
	Start, rise time	1500ms, 30ms @ 230VAC at full load
	Hold up time	20ms @ 230VAC at full load
Input	AC input range	88 ~ 264VAC
	Frequency range	47 ~ 63Hz
	Efficiency	84%
	Input current	1.6A @ 230 VAC
	Inrush current	60A / 230VAC cold start
	Leakage current	< 0.75mA / 240VAC
Protection	Over load	Rated load 110%~150%
		Hiccup mode, Auto-recovery
	Over output voltage	13.8~16.2V
		Shut off the output voltage, auto - recovery
Ambient	Over temperature	Shut off the output voltage, auto - recovery
	Operation temperature	-30°C~+70°C (Reference to derating curve)
	Operation humidity	20%~90% RH No condensation
	Storage temperature & humidity	-40°C~+85°C 10~95% RH
	Temperature coefficient	±0.03%/°C (0~50°C)
Safety STD	Vibration resistance	10~500Hz, 5G 10minutes / cycle, each X、Y、Z 60minutes
	Safety STD	TUV EN60950-1, EN60335-1, EN61558-1/-2-16, CCC GB4943
	Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC, O/P-FG:1KVAC
	Insulation resistance	I/P-O/P, I/P-FG, O/P-FG:100Mohms/500VDC/25°C/70% RH
Other	EMI	EN55022(CISPR22), GB9254(class B), EN55014, EN61000-3-2,-3
	MTBF	≥650K hrs, MIL-HDBK-217F(25°C)
	Dimension	173*18*18mm
	Package	0.06KG
	PF	0.6
	THD	-
Remark		