

280W Dimmable driver constant voltage Series



Features:

- Output constant voltage
- range 170-265VAC
- Built-in PFC function
- Efficiency 90%
- Protections:short circuit/over current/over voltage/over temperature
- Cooling by free air convection
- IP67 design for indoor or outdoor installations .
- Dimming function:0-10V/ 1-10V/ 10VPWM signal or resistance .
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp/wet locations

Specification

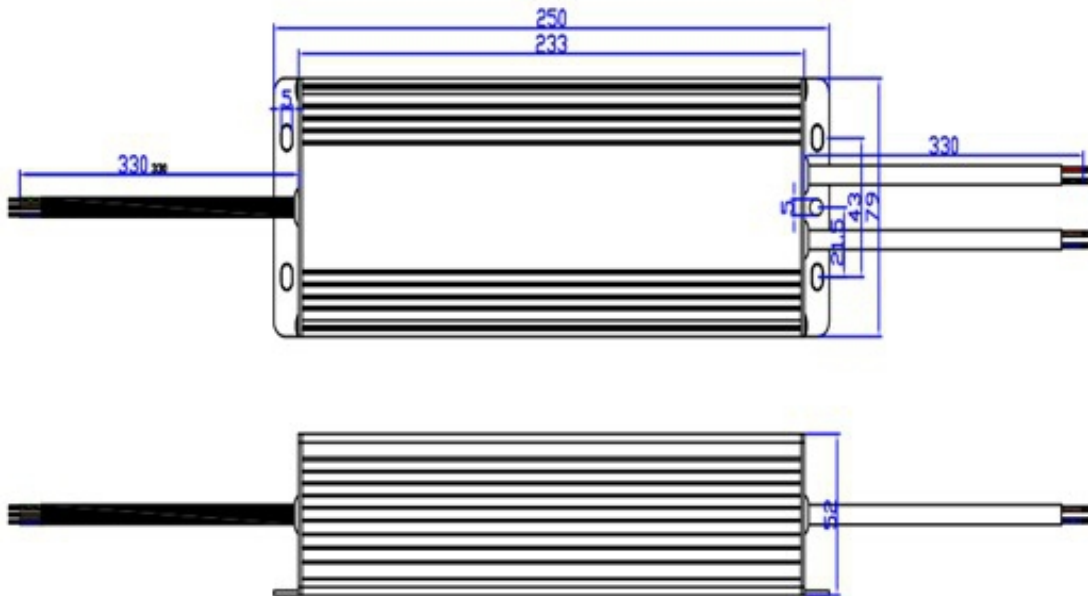
IP66 **RoHS** **CE**

model		KV-24280-A-DIM	KV-36280-A-DI	KV-48280-A-DIM
Output	DC Voltage	24V	36V	48V
	Voltage Accuracy	±0.5V		
	Rated current	0~11.6A	0~7.77A	0~5.83A
	Rated power	280W		
	Ripple&noise Max.	120mVp-p	150mVp-p	200mVp-p
Input	Voltage Range	170~265VAC		
	Frequency Range	47~63HZ		
	Power Factor (Typ.)	PF≥0.99/170V PF≥0.98/220V PF≥0.95/265V		
	Full Load Efficiency	90%	92%	92%
	AC Current (Typ.)	1.34A/170VAC 1.04A/220VAC 0.9A/265VAC (输出 280W 时)		
	Leakage current	< 0.25mA/220VAC		
Protection	Short Circuit	Protection type:constant current limiting ,recovers automatically after fault condition is removed		
	Over voltage	≤280VAC		
	Over temperature	100℃±10℃ shut down o/p voltage, re-power on to recover		
Environment	Working TEMP.	-40~+60℃		
	Working Humidity	20~95%RH,non-condensing		
	Storage	-40~+80℃, 10~95%RH		
	TEMP.coefficient	±0.03%/℃ (0~50℃)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min.each along X,Y,Z axes		
Safety&EMC	Safety standards	EN61347-2-13.IP67		
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC		
	Isolation resistance	I/P-O/P I/P-FG O/P-FG: 100MΩ/500VDC/25℃/70%RH		
	EMC EMISSION	Compliance toEN55015,EN61000-3-2 (≥50%load)		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,EN61547,Alight industry level (surge4KV)		
Others	Weight	1.8Kg		
	Size	250*79*52mm (L*W*H)		
	packing	329*279*176mm/10pcs		

Notes

- All parameters NOT specially mentioned are measured at 230VAC input , rated loa and 25°C of ambient temperature.
Ripple& noise are measured at 20MHz of bandwidth by using a 12"twisted pair-wir terminated with a 0.1uf & 47uf parallel capacitor.
- Tolerance:includes set us tolerance,line regulation and load regulation .

■280W dimmable driver Mechanical Specification



※Input 18AWG*3C, the green/yellow cable connect with (FG), Brown with AC (L),Blue with AC(N)

※Signal 18AWG*2C, Blue is (DIM+) ,White is (DIM-)

※Output 18AWG*2C, Red is output (V+) ,Black is output (V-)

※Note: Any other requests we can customized.

■Dimming Operation

※Built-in 3 in 1 dimming function, I67 rated .Output constant current level can be adjusted through output cable by connection resistance or 1-10V DC or 10V PWM signal between DIM+ and DIM-

※

※Reference resistance value for output current adjustment (Typical)

Resistance value	Signal driver	0Ω	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
	Multiple drivers	0Ω/N	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	——
Percentage of rate current		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%

※1-10/0-10V dimmable function for output current adjustment(Typical)

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rate current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%

※10V PWM signal for output current adjustment (Typical): Frequency range:100Hz-3KHZ

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rate current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%