

Model: VZ-SP150P Series

Approvals: IP67 CE FC C-RA US (except 15V,54V)

Features:



- * Universal AC input 90~305Vac.
- * Constant Voltage / Constant Current Operation.
- * Suitable for High Brightness Light-Emitting Diode products.
- * Built-in ACTIVE PFC Function.
- * Protections: OVP / OCP / SCP / OTP.
- * IP67 design for indoor or outdoor installation.
- * Cooling by free air convection.
- * Optional Timer Dimming For Power Saving.

Size : 222 * 68 * 39 mm (L*W*H)

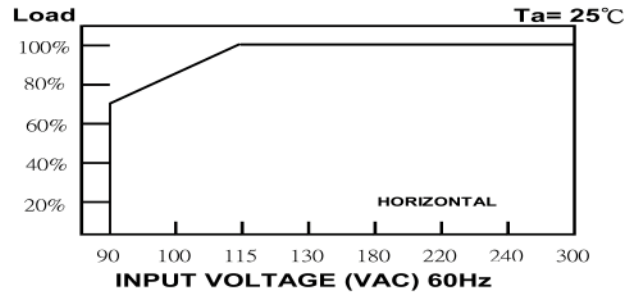
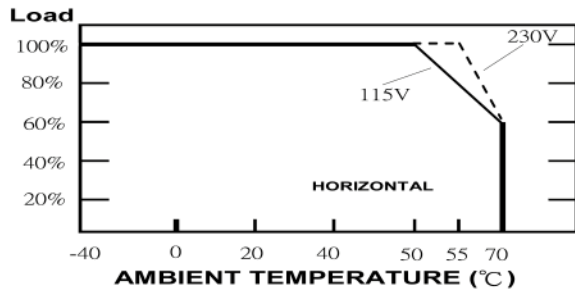


Specifications:

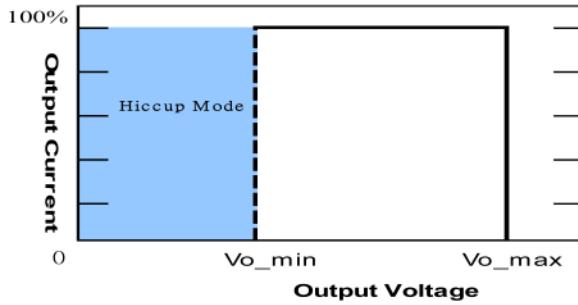
SP150P-xy : xx for O/P Voltage; y=A for Timer Dimming Feature

Model No.		SP150P-12	SP150P-15	SP150P-24	SP150P-30	SP150P-36	SP150P-48	SP150P-54	
Output	DC Voltage	12V	15V	24V	30V	36V	48V	54V	
	Constant Current Region <small>Note.4</small>	9 ~ 12V	10 ~ 15V	14 ~ 24V	22 ~ 30V	26 ~ 36V	34 ~ 48V	38 - 54V	
	Rated Current	11A	10A	6.3A	5A	4.2A	3.2A	2.8A	
	Current Tolerance								+5%, -5%
	Rated Power	132W	150W	151.2W	150W	151.2W	153.6W	151.2W	
	Ripple&Noise(Max.) <small>Note.2</small>	150mV	150mV	150mV	150mV	150mV	200mV	300mV	
	Efficiency at 230Vac(Typ.)	88%	88%	90%	90%	90%	90.0%	90.0%	
	Voltage Tolerance <small>Note.3</small>	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	
Set up time (Max.)	0.8s / 230Vac, 1.0s / 115Vac, at full load.								
Input	Voltage Range	90 ~ 305Vac / 127 ~ 430Vdc							
	Frequency Range	47 Hz ~ 63 Hz							
	AC Current (Max.)	2A at 115Vac / 1A at 230Vac							
	Power Factor	>0.98 at 115 Vac / >0.95 at 230Vac at full load. PF ≥ 0.9 at 75% load							
	Inrush Current (Max.)	COLD START 65A at 230 Vac							
	Leakage Current	<0.5mA / 240 Vac							
Protections	Over Current	95~105% rated current. Type: Auto-recovery after fault condition disappeared.							
	Short Circuit	Type: Hiccup mode & recovers after fault condition disappeared.							
	Over Voltage	14~20V	17~23V	26~32V	33~41V	40~50V	52~60V	62~74V	
	Over Temperature	Tcase: 95°C±10°C Type: Shutdown mode(re-power on to recover).							
Environment	Operation Temp. <small>Note.5</small>	-30°C~70°C (Refer to output load derating curve)							
	Operation Humidity	20% ~ 90% RH non-condensing.							
	Storage Temp.	-40 ~ +80°C							
	Storage Humidity	10% ~ 90% RH							
	Vibration	10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes.							
Safety & EMC	Safety Standards	UL8750(except 15V/54V),UL60950(except 15V/54V),EN61347-1,EN61347-2-13 ,independent;IP67 Approved.							
	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:100M ohms / 500VDC at 25 °C.							
	EMI Conduction & Radiation	Compliance to EN55015,FCC part 15							
	Harmonic Current	Compliance to EN61000-3-2 Class C(≥ 75% load),EN61000-3-3							
Others	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,11;EN61547, Light industry level,criteria A							
	MTBF	170k hours min. MIL-HDBK-217F(25°C)							
	Dimension(L*W*H)	222*68*39 mm							
	Packing(L*W*H)/Carton	548*275*141 mm							
	Weight	940g							
Note	<p>1. All specifications not specially mentioned are measured at 230Vac and 25°C ambient temperature.</p> <p>2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.</p> <p>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.</p> <p>4. Constant current operation region is within 75%~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.</p> <p>5. Please refer to derating curve.</p>								

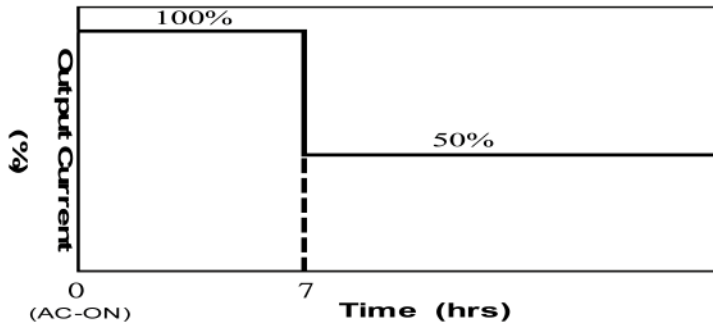
Derating Curve



Constant Voltage / Constant Current Curve



Timer Dimming



Note: The output current will return to 100% after the AC voltage is removed for a while and ON again.

Mechanical Specification

