

# **150W WSSA SERIES**



Features:

- Universal AC input /Full range (up to 305Vac)
- Output Current could be programmed in customer side
- Self-adapting Output Voltage, and range is large enough to match different LED
- High power factor, Low harmonic current
- High Efficiency (up to 93%)
- Protections: Short circuit, Over Current, Over Voltage, Over Temperature
- Compliance to the testing requirement of double 85
- Cooling by free air convection
- IP67 design for indoor or outdoor installations
- Suitable for LED lighting and street lighting application
  5 years warranty

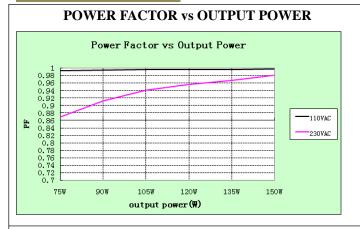
# 🕬 🐵 CB 🗑 🗇 SELV 🗑 CE IP67 RoHS

SPECIFICATI Basic Model DUTPUT	wireless programma	e (0~10V) separately) able dimming function (timing WSSA-150-020VN	controlled dimming function, PWM	signal (5V or 10V), initial output cur	rrent definition)
Basic Model	Output Current Range		controlled dimming function, PWM	signal (5 v or 10 v), initial output cui	
Basic Model	Output Current Range	WSSA 150 020VN			
DUTPUT			WSSA-150-060VN	WSSA-150-080VN	WSSA-150-176VN
DUTPUT		0.42A~4.2A	0.21A~2.1A	0.11~1.1A	0.07~0.7A
DUTPUT	Output Voltage	20~54Vdc,	60~120Vdc	80~214Vdc	176~335Vdc
DUTPUT	Rated Power	150W	150W	150W	150W
	Ripple Current <sup>1</sup> (max.)	200mA	200mA	200mA	200mA
	Output current regulation	±3%	±3%	±3%	±3%
	Turn-on Delay time	3Smax.@220Vac input & Full load, 5Smax.@100Vac input & Full load.			
	Turn-on Rise time	300mSmax.@ Full load			
INPUT	Voltage ramge	90V~305VAC	90V~305VAC	90V~305VAC	90V~305VAC
	Frequency Range	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
	Power Factor(Typ.)	PF>0.99 at 115VAC PF>0.97 at 230VAC	PF>0.99 at 115VAC PF>0.97 at 230VAC	PF>0.99 at 115VAC PF>0.97 at 230VAC	PF>0.99 at 115VAC PF>0.97 at 230VAC
	Efficiency (Typ.)	91% at 230VAC	93% at 230VAC	92% at 230VAC	92% at 230VAC
	AC Current	2.1Amax@100Vac-277Vac & Full Load			
	Inrush Current	50A max @ 230Vac input	50A max @ 230Vac input	50A max @ 230Vac input	50A max @ 230Vac input
	Standby input power	3Wmax.@ Nominal input	3Wmax.@ Nominal input	3Wmax.@ Nominal input	3Wmax.@ Nominal input
	(max.)		<u> </u>		
PROTECTION	Over Voltage	<60Vdc	<130Vdc	<235Vdc	<350Vdc
		When the output voltage is over the limitation, the product will shut down output, it can recovery when the fault condition is removed.			
	Short Circuit	The input power shall decrease when the output rail is shorted, the power supply shall have no damage, and shall recovery when the transition is removed.			
	Over Temperature	When Tc > 85 °C, the output current will be decreased to protect the LED driver. When the temperature of the case go down below 85 °C, product will self-recovery. The minimum output current will be limited to 30% (typ.) of the rated output current in OTP function. The L driver could survive in 125 °C for 2hrs.			
	-				
	Operating Temp.	-40~60°C	-40~60°C	-40~60℃	-40~60℃
ENVIORNMENT	Operating Humidity	95% RH	95% RH	95% RH	95% RH
	Storage Temp	-40~85C	-40~85C	-40~85C	-40~85C
	Water proof	IP67	IP67	IP67	IP67
	Vibration	The LED power supply can survive vibration towards three mutually perpendicular direction (X, Y, Z), each direction for 72 minutes. vibration is in accordance with the sine wave with 2mm amplitude, and its frequency range from 10Hz to 500Hz with 5G acceleration			
RELIABILITY SAFETY &EMC	MTBF	>200Khours @ 25°C			
	SAFETY STANDARDS	UL8750, EN61347-1/A2:2013, EN61347-2-13: 2006, IEC61347-1, IEC61347-2-13, EN62493: 2010, GB19510.1-2009, GB19510.14-200			
	WITHSTAND VOLTAGE	I/P-O/P: 3750VAC I/P-FG: 1650VAC O/P-FG: 1600VAC			
	LEAKAGE CURRENT	0.75mA max @ 277Vac 50Hz input			
	SURGE IMMUNITY	DM 5kV, CM 10KV			
	ISOLATION	$50M\Omega$ min. at primary to secondary with 500Vdc test voltage			
	RESISTANCE	Soviez min. at primary to secondary with 500 vide test voltage			
	EMC EMISSION	Compliance to EN55015 (CISPR15), EN61000-3-2; EN61000-3-3, GB17743, GB17625.1			
	EMC IMMUNITY	Compliance to Ex65515 (Clor R15), Ex61000-3-2, 4:01000-3-5, GB17/45, GB17/25.1			
MECHANICAL	DIMENSION	207*68*39mm			
	WIGHT	1000±50g			
	COLOR	BLACK	BLACK	BLACK	BLACK
THERS	/	/	/		
IOTE	1 Ripple current are measure	asured at full bandwidth of the oscillator. The actual ripple current rely on the characteristic of LED load.			
NOTE	2. The power supply will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment.				
	2. The power suppry win be operated in combination with man equipment. Since ENC performance win be affected by the complete installation, the man equipment and the power suppry with be affected by the complete installation.				
	3. All parametric in this datasheet is typical value				
	5. The parameters in this datasheet is typical value				

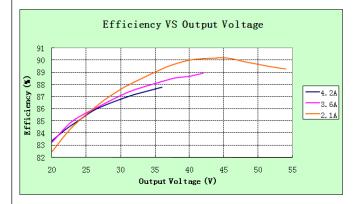


# Characteristic Curve

#### Model: WSSA-150-020VN

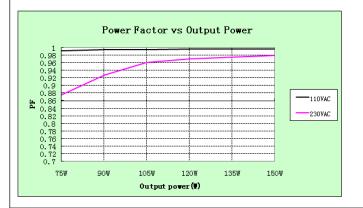


#### **EFFICIENCY vs Voutput** (Vin=115Vac, Ta=25°C)

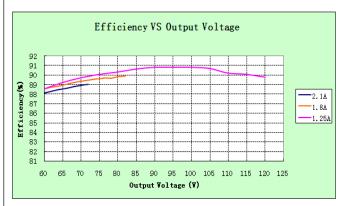


# Model: WSSA-150-060VN

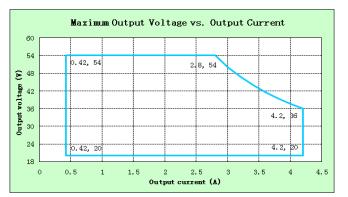
# **POWER FACTOR vs OUTPUT POWER**



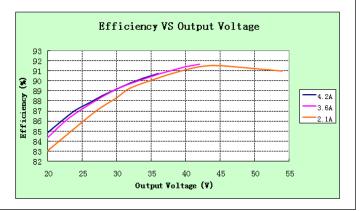
# **EFFICIENCY vs Voutput** (Vin=115Vac, Ta=25°C)



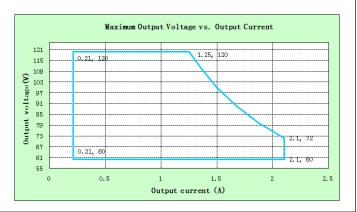
# **OUTPUT V-I OPERATING AREA**



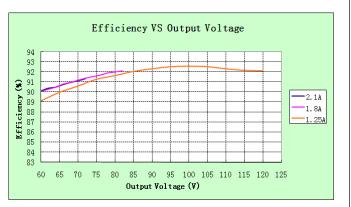
#### **EFFICIENCY vs Voutput** (Vin=230Vac, Ta=25°C)



#### **OUTPUT V-I OPERATING AREA**

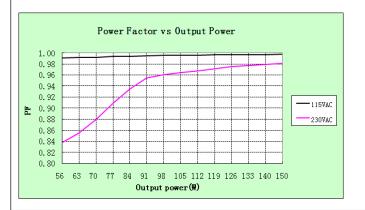


#### **EFFICIENCY vs Voutput** (Vin=230Vac, Ta=25°C)

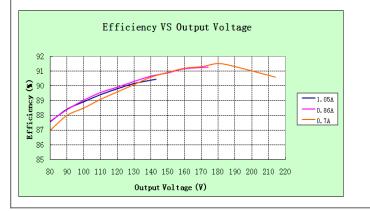


#### Model: WSSA-150-080VN

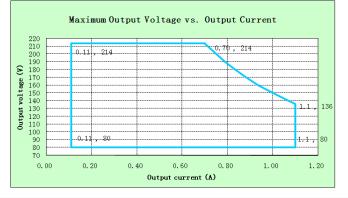
#### **POWER FACTOR vs OUTPUT POWER**

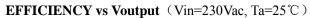


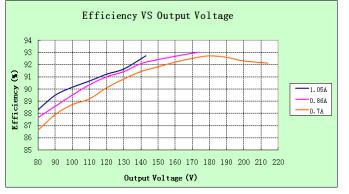
# **EFFICIENCY vs Voutput** (Vin=115Vac, Ta=25°C)



# **OUTPUT V-I OPERATING AREA**

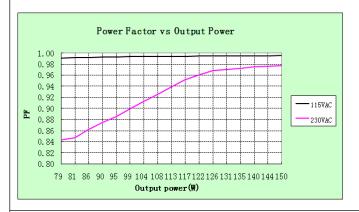




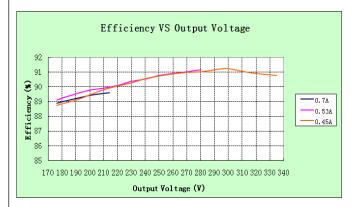


# Model: WSSA-150-176VN

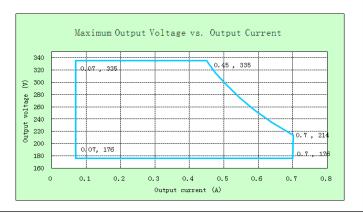
# **POWER FACTOR vs OUTPUT POWER**



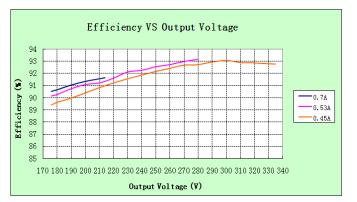
# **EFFICIENCY vs Voutput** (Vin=115Vac, Ta=25°C)



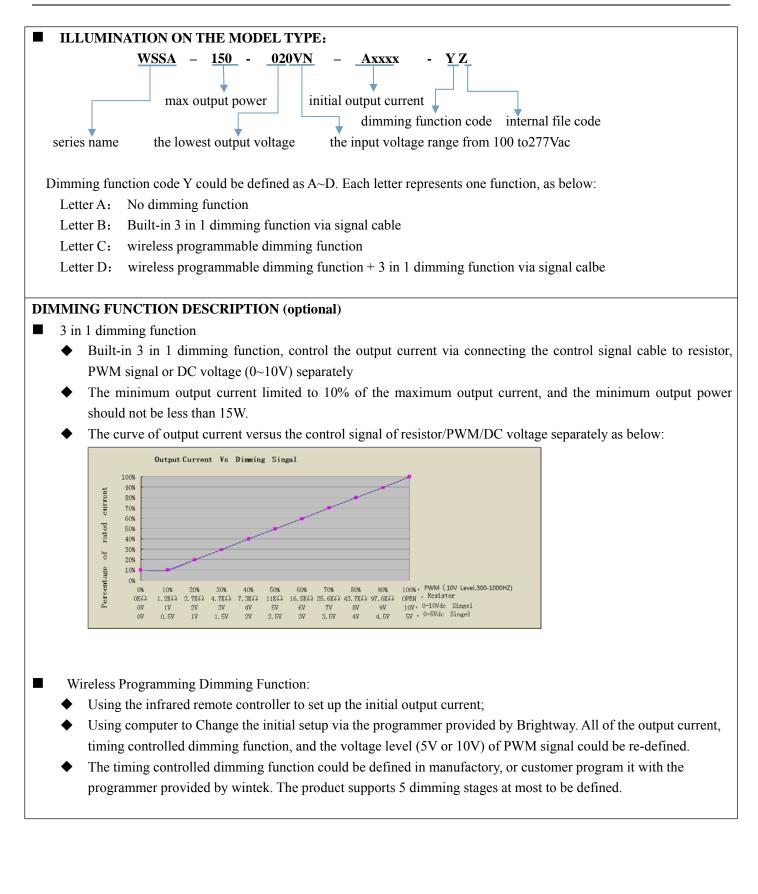
# **OUTPUT V-I OPERATING AREA**



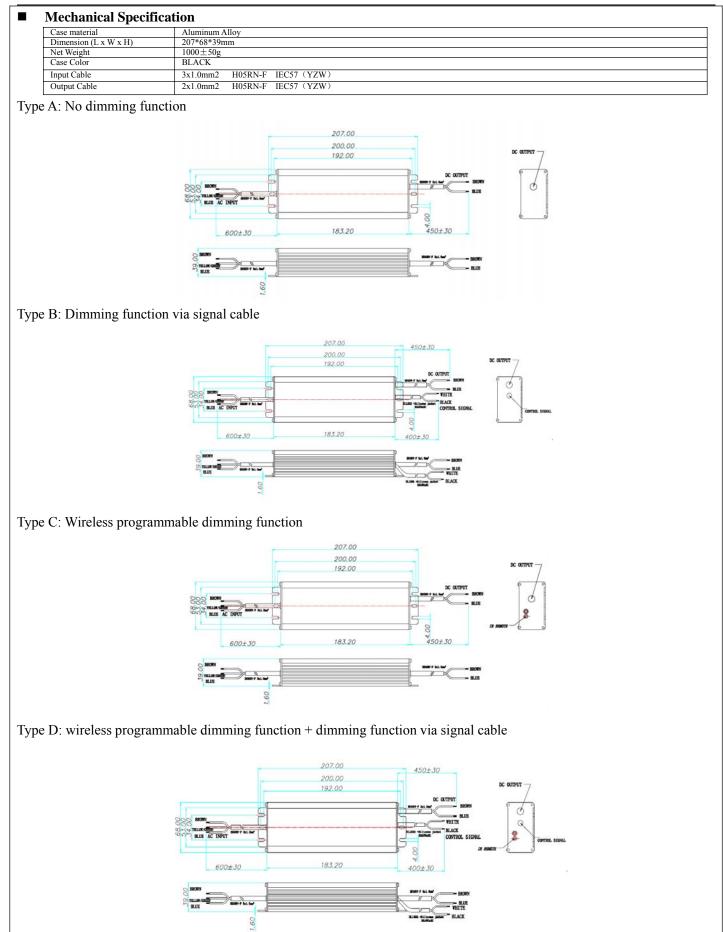
#### **EFFICIENCY vs Voutput** (Vin=230Vac, Ta=25°C)











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