

### Features:

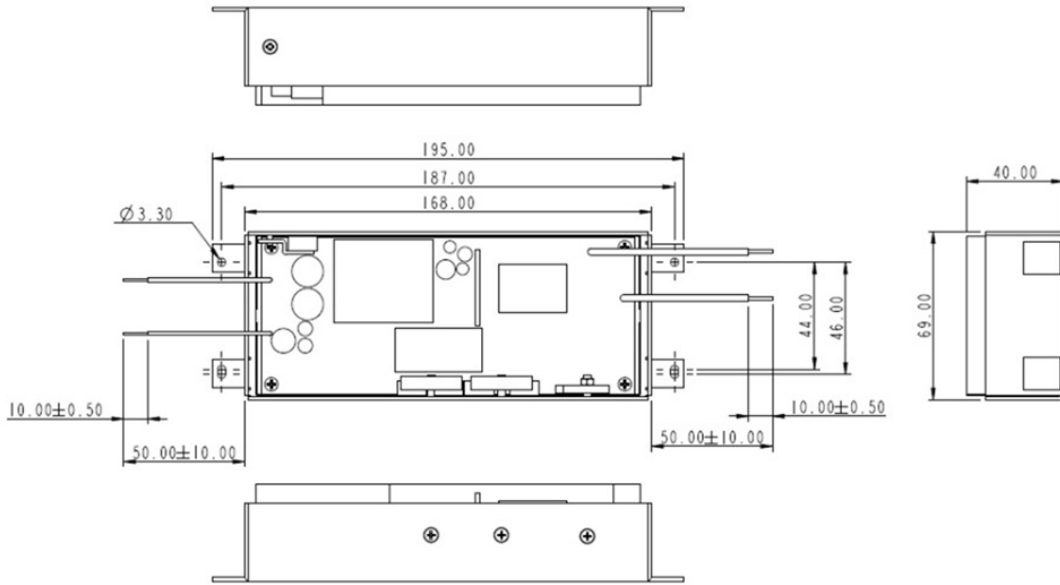
- AC Input Range: 100~277V
- Protections: Over current / Over voltage / Over temperature / Short circuit
- Environment working temp: -40°C ~ +70 °C
- Compliance to worldwide safety regulations for lighting
- Lifetime: 60,000 hrs
- Suitable for LED High Bay, Street light, Flood light, Electronic signage, Advertising light box, Screen wall
- 4-in-one dimming: 1-10V DC, 10V PWM, Bluetooth, VR Resistor
- Warranty: 5 years



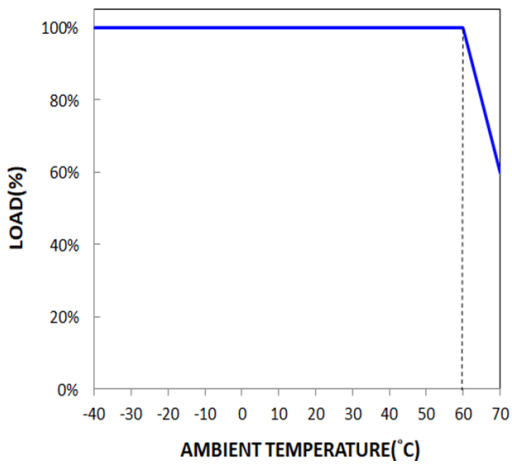
### SPECIFICATION

Model		WI-100-48N-S	WI-120-48N-S	WI-150-48N-S	WI-150-150N-S	WI-180-48N-S
Output	Rated Power	100W	120W	150.2W	150W	180W
	Output Voltage	48V	48V	48V	150V	48V
	Rated Current	0~2.08A	0~2.5A	0~3.13A	0~1A	0~3.75A
	Voltage Adj. Range	43V~53V	43V~53V	43V~53V	140~160V	43V~53V
	Current Adj. Range	Can be adjusted by internal potentiometer				
		1.04~2.08A	1.25~2.5A	1.56~3.13A	0.5~1.0A	1.88~3.75A
	Voltage Tolerance	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	Line Regulation	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	Load Regulation	± 2.0%	± 1.0%	± 0.5%	± 0.5%	± 0.5%
Ripple & Noise	480mVp-p	480mVp-p	480mVp-p	1.2Vp-p	480mVp-p	
Input	Voltage Range	90 ~ 305VAC or 127 ~ 431VDC				
	Frequency Range	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
	Efficiency (Typ.)	91%	91%	91%	92%	92%
	Total Harmonic Distortion	THD< 20% when output loading ≥50% at 115VAC/230VAC input and output loading ≥75% at 277VAC input				
	Power Factor (Typ.)	F>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load				
Environment	Working Temp.	-40 ~ +70°C				
	Working Humidity	20 ~ 95% RH non-condensing				
Protection	OVP	54 ~ 60V	54 ~ 60V	54 ~ 60V	160 ~ 170V	54 ~ 60V
		Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery				
	OCP	95 ~ 108%				
		Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	SCP	Recovers automatically after fault condition is removed				
	OTP	100°C ±10°C derating 50% o/p current, recovers automatically after temperature goes down				
Safety & EMC	Safety Standard	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67, J61347-1, J61347-2-13 approved ;design refer to UL60950-1, TUV EN60950-1				
	EMC Emission	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥ 50% load) ; EN61000-3-3				
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 12KV), criteria A				
Others	MTBF	180,000 hrs min. MIL-HDBK-217F (25°C)				
	Lifetime	60,000 hrs at 25°C				
	IP Rating	-				
	Dimming	4-in-one dimming				
	Dimension	195L*69W*40H mm				

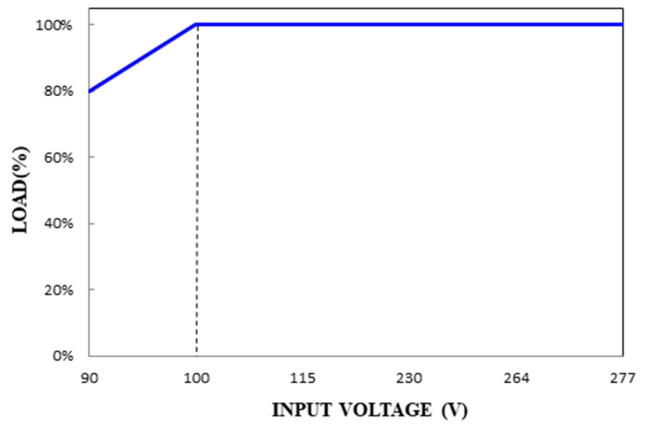
**MECHANICAL SPECIFICATION**



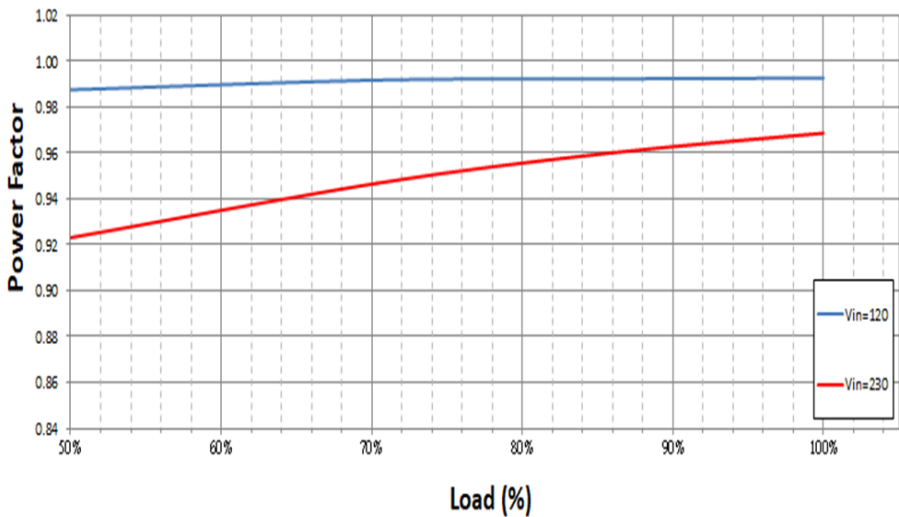
**DERATING CURVE**



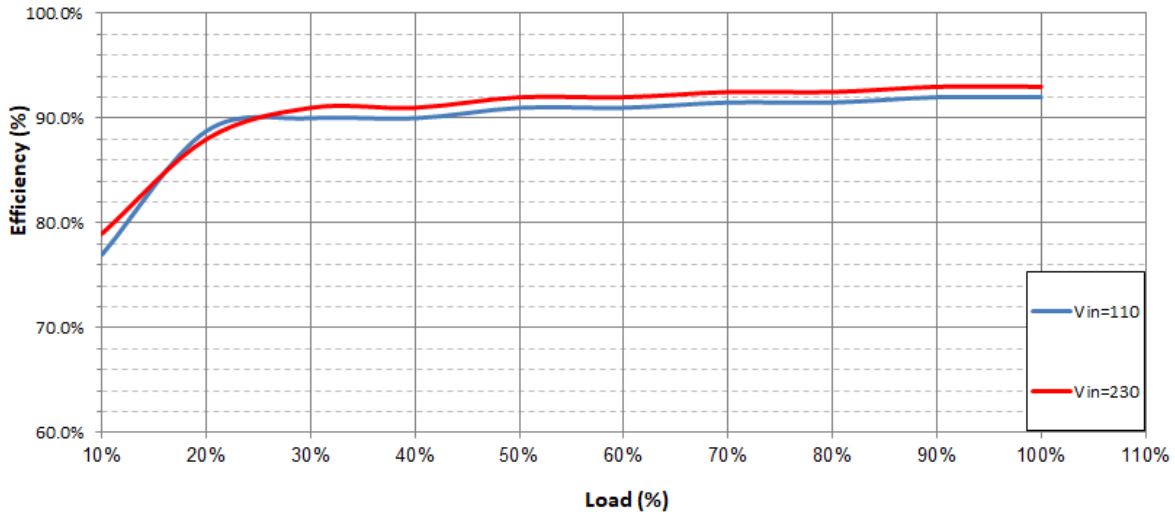
**STATIC CHARACTERISTIC**



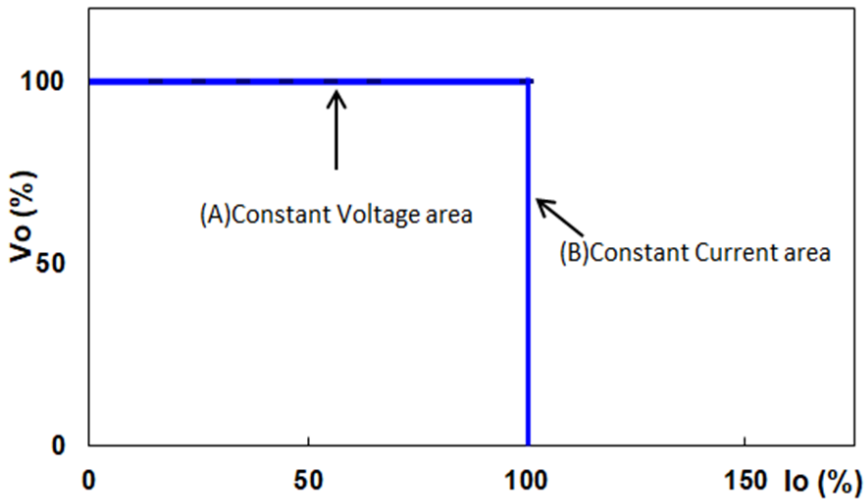
**POWER FACTOR CHARACTERISTIC**



### EFFICIENCY V.S LOAD



### DRIVING METHODS OF LED MODUL



**DIMMING CONTROL DATA**

**Reference resistance value for output current adjustment (Typical)**

Resistance value	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	104~106%

**1 ~ 10V dimming function for output current adjustment (Typical)**

Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	104~106%

**10V PWM signal for output current adjustment (Typical)**

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	104~106%

**BLOCK DIAGRAM**

