

0/1-10V LED dimmable driver---Constant Current 20W

■ Feature

- Output constant current
- Universal AC input:100-265VAC
- Built-in active PFC function
- High efficiency up to 82%
- Protections:Short circuit/Over current/Over loading
- Cooling by free air convection
- IP67 design for indoor or outdoor installation
- Class 1 power unit
- Three in one dimming function(0/1-10Vdc or PWM signal or resistance)
- Dimming range: 0-100%
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Three years warranty



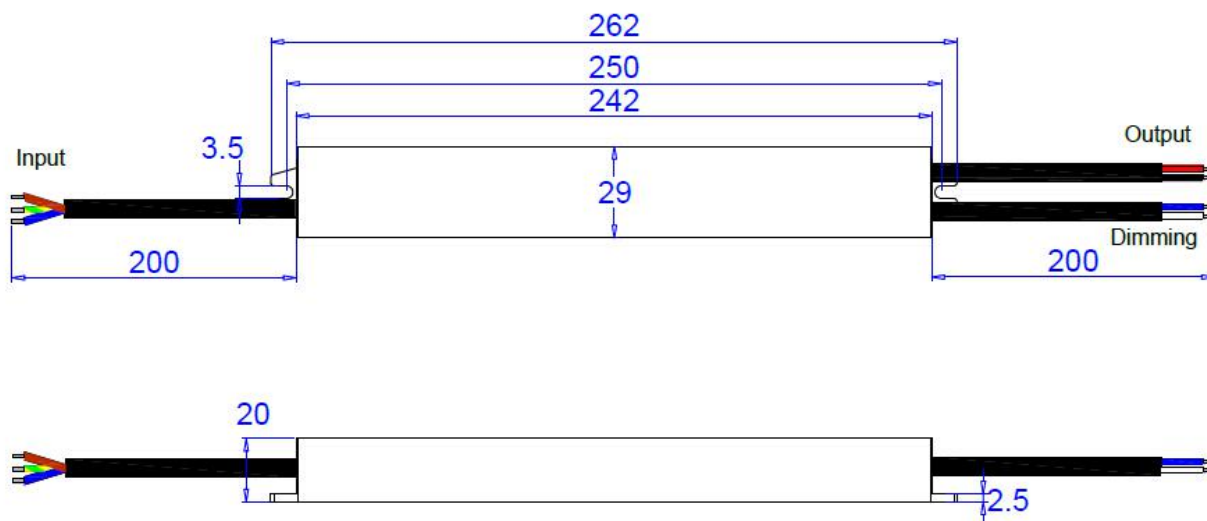
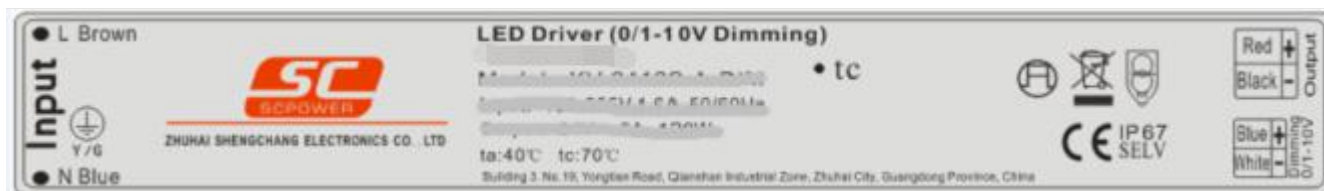
■ Specification

CE   IP67 SELV

Model		KI-50350A-DIM	KI-35500-A-DIM	KI-25700-A-DIM	KI-20900-A-DIM
Output	DC Current	350mA	500mA	700mA	900mA
	Current Tolerance	±5%			
	Output Voltage range	30-50V	21-35V	15-25V	12-20V
	Rated power	17.5W	17.5W	17.5W	18W
	Open circuit voltage(Max)	55V	40V	30V	25V
Input	Voltage Range	100~265VAC			
	Frequency Range	47~63HZ			
	Power Factor	PF≥0.92/120VAC PF≥0.88/230VAC PF≥0.85/265VAC (Full loading)			
	Efficiency (Typ.)	82%	82%	82%	82%
	AC Current (Max.)	0.2A	0.2A	0.2A	0.21A
	Leakage current	<0.5mA			
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed			
	Over Loading	≤120%			
	Over Current	≤1.2*I _{out}			
Environment	Working TEMP.	-40~+60℃			
	Working Humidity	20~95%RH non-condensing			
	Storage TEMP.,Humidity	-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	EN61347-1 EN61347-2-13			
	Withstand voltage	I/P-O/P:3.75KVAC			
	Isolation resistance	I/P-O/P: 100M Ohms/500VDC/25℃/70%RH			
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 (≥60%load)			

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	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, light industry Level Criteria A
Others	Net.Weight	0.35Kg
	Size	262*29*20mm (L*W*H)
	Packing	325*300*190mm 50PCS /CTN
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature. 2. Tolerance:includes set up tolerance,line regulation and load regulation . 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation,the final equipment manufactures must be-qualify EMC Directive on the complete installation again.	

■ 20W 0-10V dimmable driver Mechanical Specification

■ Label


※Input Rubber cable H05RN-F 3*0.75mm², the green/yellow cable connect with (FG), Brown with AC (L), Blue with AC(N)

※Signal Rubber H05RN-F 2G*0.75 mm², Blue is (DIM+) ,White is (DIM-)

※Output rubber cable H05RN-F 2G*0.75 mm², Red is output (V+) ,Black is output (V-) .

Note: Any other requests we can customized.

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■ Dimming Operation

※Built-in 3 in 1 dimming function, IP20 rated .Output luminous can be adjusted through output cable by connecting a resistance or 0/1-10Vdc or 10V PWM signal between DIM+ and DIM-.

※Please DO NOT connect “DIM-“ to “LED-“

※Reference resistance value: (Typical)

Resistance value	Signle 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 luminous		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

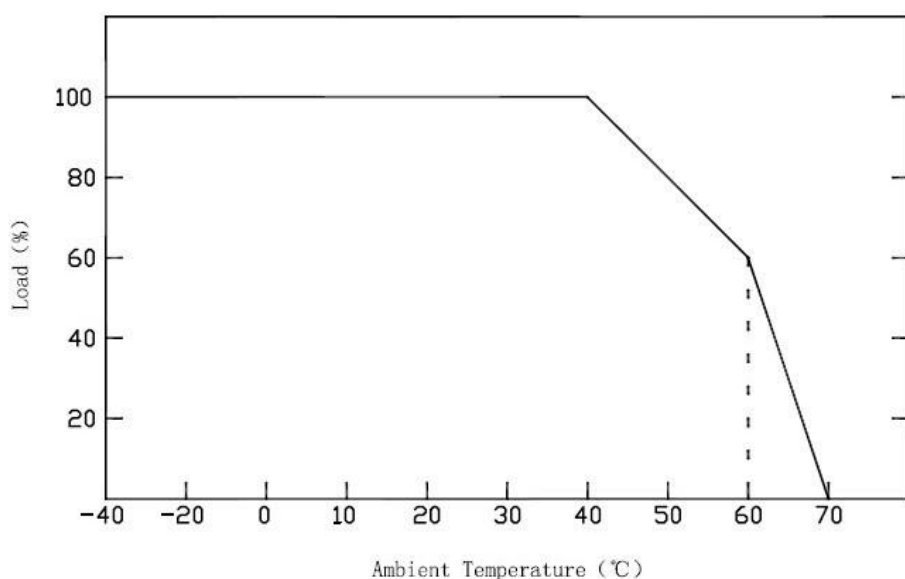
※1-10/0-10V dimmable function :(Typical)

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

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

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of luminous	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

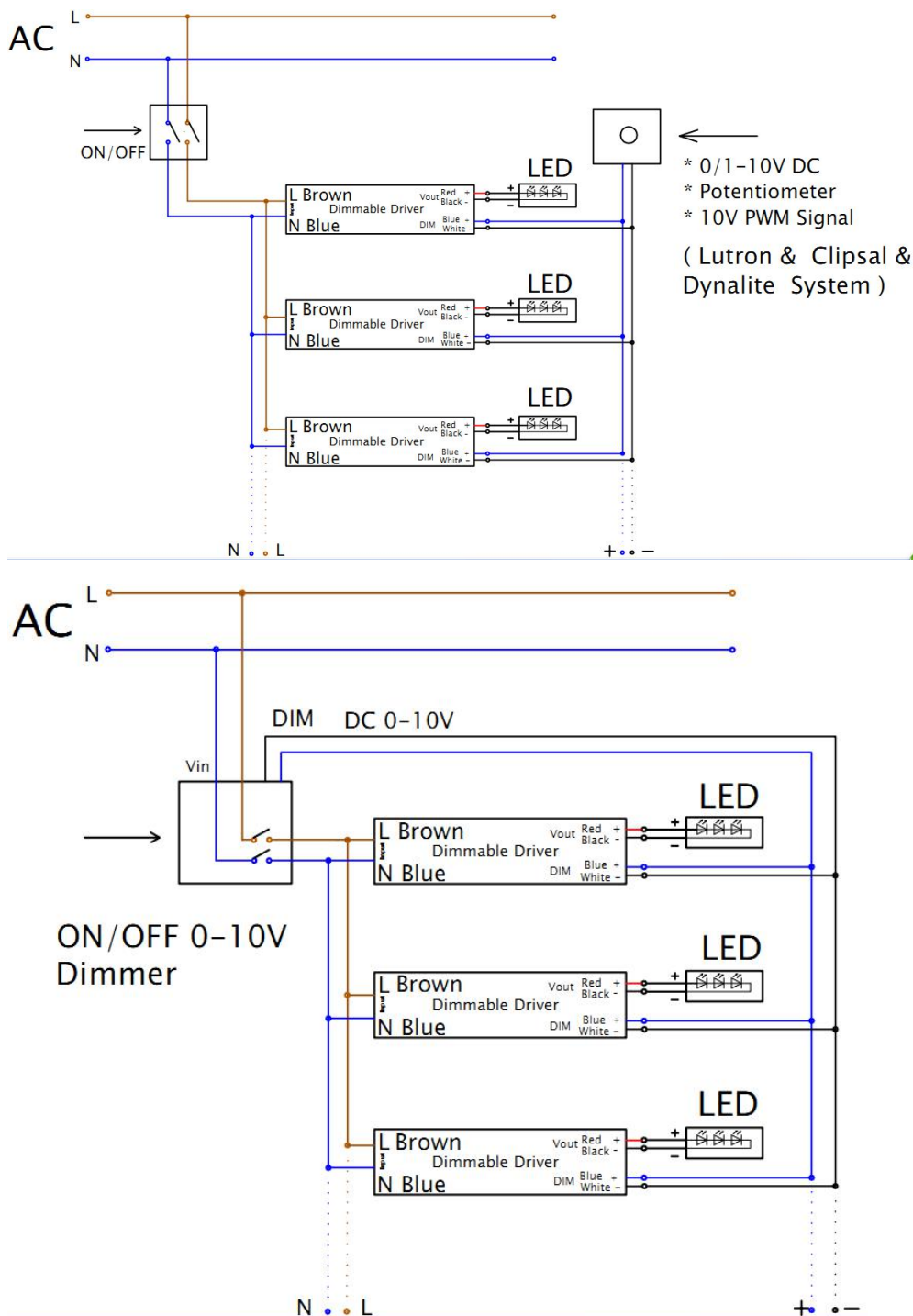
■ Derating Curve



※ To extend their life ,please refer to the Derating Curve and derate according to the temperature

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■ Connect Drawing



■ Instruction

- 1) This driver should be installed by qualified and professional person;
- 2) Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- 3) Ensure that wiring is correct before test in order to avoid light damage;
- 4) If driver cannot work normally, don't maintain privately; Have any questions, please contact Shengchang