

Intelligent LED Driver (Constant Current)

- Housing made from SAMSUNG/COVESTRO's V0 flame retardant
- Ultra small, thin and lightweight, screwless end cap.
- Change the output current, dimming mode and other parameters via
- Adjustable output current with 1mA step.
- Automatically recognize 0-10V and 1-10V input signal.
- Ultra-low consumption of 0-10V ports < 0.05mA.
- $\bullet\,$ Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ super deep dimming technology, 0.01% dimming depth.
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- $\bullet\,$ When there is no load, the output will be 0V to prevent damage to LEDs due to poor contact.
- $\bullet\,$ Overheat, over voltage, overload, short circuit protection and
- Suitable for Class I / II / III indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).

4 in 1 dimming 0-10V 1-10V 10V PWM RX





Flicker Free IEEE 1789

Dimmable: 10000:1

NFC•)) Programmable















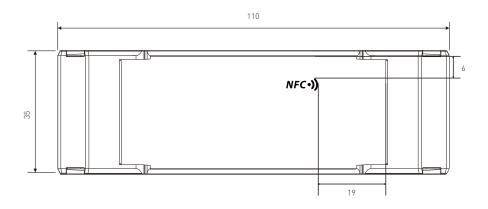


Model		SE-12-1	100-500-W2A				
	Output Type	Constan	nt current				
Features	Dimming Interface	0-10V (1-10V, 10V PWM, RX)					
	Output Feature	Isolation					
	Protection Grade	IP20					
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)					
ОИТРИТ	Output Voltage	9-42Vdc					
	Maximum output voltage	≤48Vdc					
	Output Current Range	100-500mA					
	Output Power Range	0.9W-12W					
	Dimming Range	0~100%, down to 0.01%					
	LF Current Ripple	<3%[Maximum current for non dimming state]					
	Current Accuracy	±5%					
l	PWM Frequency	≼3600Hz					
	DC Voltage Range	120-300Vdc					
	AC Voltage Range	100-240Vac					
	Input Voltage	115Vac/230Vac					
ļ	Frequency	50/60Hz					
	Input Current	<0.18A/115Vac, <0.08A/230Vac					
	Power Factor	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)					
INPUT	THD	THD<10%/230Vac, at full load					
ļ	Efficiency (Typ.)	84%@300mA (at full load),82%@500mA (at full load)					
	Inrush Current	Cold start 15A(Test twidth=102us tested under 50% Ipeak)/230Vac					
	Anti Surge	L-N: 2KV					
	Leakage Current	Max. 0.	24mA				
	Working Temperature	ta: -20 -	~ 50°C tc: 80°C				
	Working Humidity	20 ~ 95%RH, non-condensing					
NVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~35%RH					
	Temperature Coefficient	±0.03%/°C(0-50°C)					
İ	Vibration		10-500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively				
		Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced					
	Overload Protection	Automa	itically protect the device	e when the load exceeds 102% of the rated power. Automatically recover once load is reduced			
	Overload Protection Overheat Protection						
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection	Intellige	ently adjust or turn off the	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out			
PROTECTION	Overheat Protection	Intellige Automa	ently adjust or turn off the atically protect the device	e when the load exceeds 102% of the rated power. Automatically recover once load is reduced e current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically			
PROTECTION	Overheat Protection Overvoltage Protection	Intellige Automa Enter hi	ently adjust or turn off the atically protect the device	e current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection	Intellige Automa Enter hi	ently adjust or turn off the atically protect the devic- iccup mode if short circu	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi	intly adjust or turn off the stically protect the devicticup mode if short circup: 3750Vac 2: 100ΜΩ/500VDC/25°(ecurrent output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F	ently adjust or turn off the atically protect the device iccup mode if short circu P: 3750Vac	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F I/P-0/F	ntly adjust or turn off the stically protect the devicing mode if short circup: 3750Vac 2: 3750Vac 2: 100ΜΩ/500VDC/25°C China Germany	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV	ently adjust or turn off the atically protect the deviction mode if short circup?: 3750Vac?: 100ΜΩ/500VDC/25°0	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB	ently adjust or turn off the stically protect the devicing mode if short circles 2:3750Vac 2:100ΜΩ/500VDC/25°C China Germany CB Member States European Union	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal output when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE	ently adjust or turn off the stically protect the devic- iccup mode if short circup: 3750Vac P: 100ΜΩ/500VDC/25°C China Germany CB Member States	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically iit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC	ently adjust or turn off the stically protect the devic- iccup mode if short circus. 2: 3750Vac 2: 100ΜΩ/500VDC/25°0 China Germany CB Member States European Union	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM	ently adjust or turn off the stically protect the devicing mode if short circles 2:3750Vac 2:100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13			
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC	ently adjust or turn off the stically protect the devicing mode if short circles 2:3750Vac 2:100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, AS 61347-2-13 EN61347-1, AS 61347-2-13, EN62384			
	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC UKCA	ently adjust or turn off the stically protect the devicing mode if short circles 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493			
SAFETY	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS	ently adjust or turn off the atically protect the devicing mode if short circles 2:3750Vac 2:100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, S 61347-2-13 EN61347-1, S 61347-2-13 EN61347-1, S 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13]			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL	ently adjust or turn off the stically protect the devicing mode if short circles 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 AS 61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automae Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°0 China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, S 61347-2-13 EN61347-1, S 61347-2-13 EN61347-1, S 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13]			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automae Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automae Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°0 China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, BC61347-2-13 EN61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART Z/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Rissia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, BS EN 61347-2-13 EN61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM CM CCC CE CCC CCC CCC CCC CCC CCC CCC	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC	ently adjust or turn off the stically protect the devicioup mode if short circle 2: 3750Vac 2: 100ΜΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, BS EN 61347-2-13 EN61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL CCC CE KC CE KC UL CCC CE KC CUL CCC CE KC CUL CCC CE KC CUL CCC CE KC CCC CCE KC CCC CCC CCC CCC CC	ently adjust or turn off the stically protect the devicioup mode if short circle 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal oute when voltage exceeds the no-load voltage. It can be recovered automatically curve, and recover automatically cours, and recover automatically course, and recover automati			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM CUL UL CCC CE KC CAC CCC CC	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards EMC Emission	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC CCE KC EAC CCE KC EAC CCE KC EAC CCE KC EAC EAC EAC EAC EAC EAC EAC EAC EAC EA	ently adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°0 China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia Australia European Union Korea Russia Australia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM CUL UL CCC CE KC EAC RCM CUL UL CCC CE KC EAC RCM COL CCC RCM COL	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°0 China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia	current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically 2/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 AS 61347-1, IEC61347-2-13 AS 61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC661547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B			
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards EMC Emission EMC Immunity Power Consumption	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM CUL UL CCC CE KC EAC RCM NCA CUL FCC EN610C Netword No-load	ently adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia Australia European Union Korea Russia	current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-3, EN62384 BS EN 61547-1, BS EN 61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <			
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards EMC Emission	Intellige Automate Enter his I/P-0/F I/P-0/F CCC TUV CB CE EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UKCA CUL FCC EAC RCM UKCA CUL INTELLIGENTIAL COL INTELLIGEN	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia Australia Britain Canada America O-4-2,3,4,5,6,8,11, EN ked standby	current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 N0.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <			
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards EMC Emission EMC Immunity Power Consumption Flicker/Stroboscopic Effect	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM CUL UL CCC CE KC EAC RCM INCA CUL INCA CU	ntly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia Australia Britain Canada America 00-4-2,3,4,5,6,8,11, EN ked standby I power consumption	current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal out to when voltage exceeds the no-load voltage. It can be recovered automatically it occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13, EN62384 KC61347-1, IEC61347-2-13, EN62384 KC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13, EN62384 BS EN 61347-1, EN61347-2-13, EN62384 BS EN 61347-1, EN61347-2-13, EN62384 BS EN 61347-1, EN61347-2-13, EN62384 BS EN 61347-1, SS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <p><0.5W [After shutdown by command]</p> <0.5W (When the lamp is not connected) Meet IEEE 1789 standard/High frequency exemption level Pst LM<1.0, SVM<0.4			
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards EMC Emission EMC Immunity Power Consumption	Intellige Automate Enter his I/P-0/F I/P-0/F CCC TUV CB CE EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UKCA CUL FCC EAC RCM UKCA CUL INTELLIGENTIAL COL INTELLIGEN	antly adjust or turn off the stically protect the devicicup mode if short circup: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia Australia Britain Canada America O-4-2,3,4,5,6,8,11, EN ked standby I power consumption 89 I actor	current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal out e when voltage exceeds the no-load voltage. It can be recovered automatically uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 N0.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <			

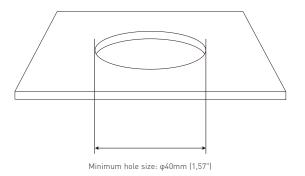


Product Size

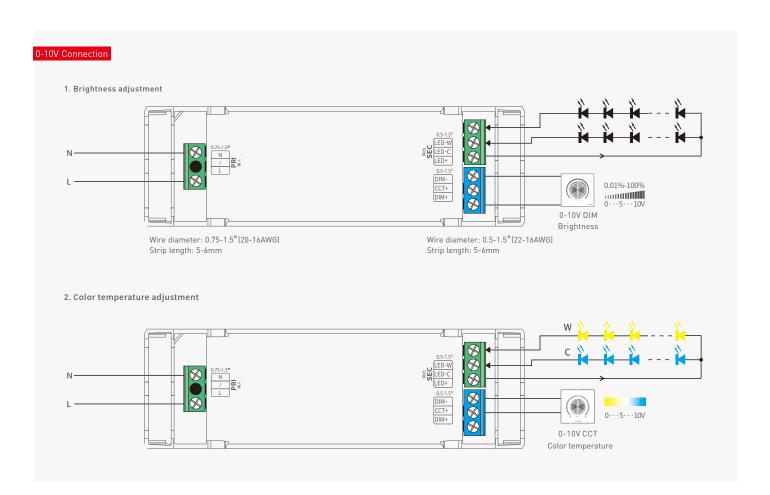
Unit: mm





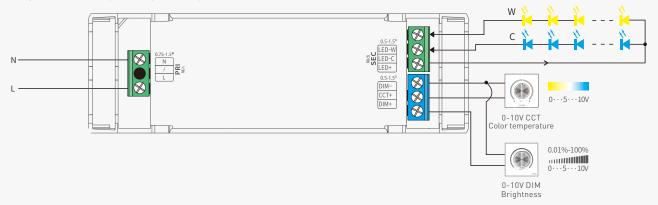


Wiring Diagram

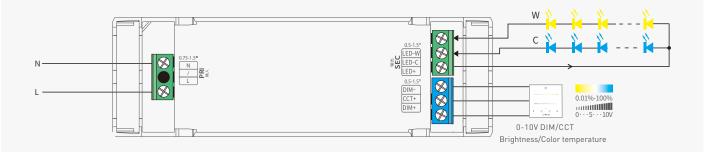




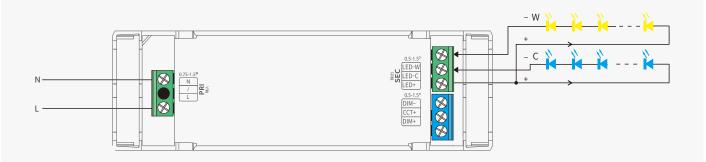
3. Brightness and color temperature adjustment respective



4. Brightness and color temperature adjustment simultaneous



Four-wire LED connection



* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.

12W driver, 12W X 2CH load can be connected, the total power of the 2 channels will be kept in 12W.

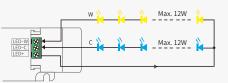




Table of Typical Corresponding Parameters for Current

The typical 9 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-500mA adjustable in 1mA step									
Output Current	100mA	150mA	200mA	250mA	300mA				
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc				
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W				
Output Current	350mA	400mA	450mA	500mA	/				
Output Voltage	9-34Vdc	9-30Vdc	9-27Vdc	9-24Vdc	/				
Output Power	3.15-11.9W	3.6-12W	4.05-12.15W	4.5-12W	/				

Protective Housing Application Diagram



1. Use a tool to pry up the protective housing on the side panel.

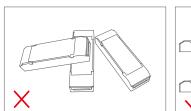
2. Pry up the protective housing in the side plate position with a tool.

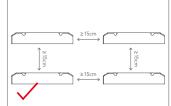
3. Connect to electrical wires with a screwdriver as wiring diagram shows.

4. Press down the tension plate to fix the the electrical wires.

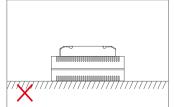
5. Close the protective housing.

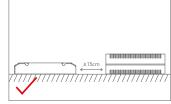
Installation Precautions











Please not place the products on LED drivers. The distance between the product and the driver should be >15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.



Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).



* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

Read/Write the LED driver

Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

1. Read the LED driver

On the APP home page, click [Read/Write LED driver], then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.



2. Edit the parameters

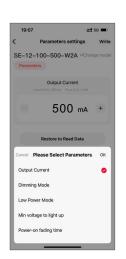
Click 【Parameter settings】 to edit the advanced parameters, like output current, dimming mode, low power mode, etc.

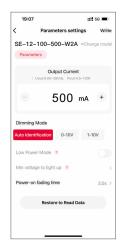
3. Write to the driver

After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.



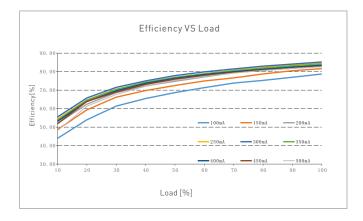


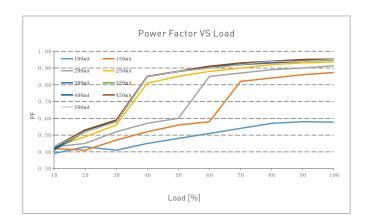


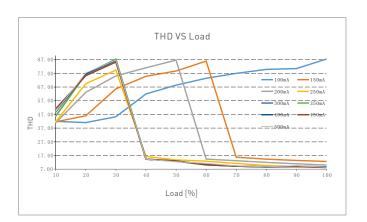


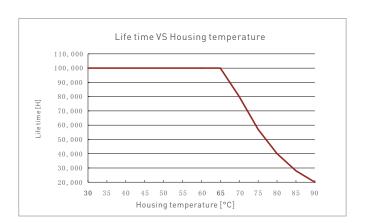


Relationship Diagrams









Frequency(Hz)

SE-12-100-500-W2A

Flicker Test Sheet Modulation Area Diagram High Frequency Exemption Area Diagram IEEE 1789 Brightness 100.00% **▲** 0.1% Limit of modulation in low risk area + 1% 5% 10% 8Hz < f ≤ 90H; 20% 90Hz < f ≤ 1250H; 0.08 × f IEEE 1789 High Risk • 30% 10.00% 40% Limit of modulation in no effect area ★ 50% 60% 70% Modulation(%) 80% 10Hz < f ≤ 90Hz 90Hz < f ≤ 3125Hz [0.08/2.5]× f 90% IEEE 1789 No Effect **1**00% 1.00% IEEE 1789 Low Risk ${\sf Marks\,in\,the\,right\,chart\,were\,tested\,results\,of\,different\,current\,ranges.}$ The output frequeny is 0Hz in 100% brightness and its corresponding 0.10% modulation is 0%, which could not be shown in the right chart. 10 100 1000 3125 10000



Packaging Specifications

Model	SE-12-100-500-W2A
Carton Dimensions	260×240×215mm(L×W×H)
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton
Weight	0.095 kg/PC; 9.5 kg±5%/Carton

Packaging Image



Inner Packaging Box



Carton Packaging



Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- This product must be installed and adjusted by a qualified professional.
- LTECH products are and not lightning proof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- · When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- · Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- · Warranty periods from the date of delivery: 5 years.
- $\bullet \quad \text{Free repair or replacement services for quality problems are provided within warranty periods}.$

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.
- 1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
- 2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.



Update Log

Version	Updated Time	Update Content	Updated by
Α0	20230914	Original version	Yang Weiling

9