# Constant Current LED Power Supply Phasecut Dimmable

SLD8-350IB-Es (for build-in use)
SLD8-350IL-Es (for independent use)



#### Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant current (CC) technology, With optional fittings, it can change from build-in

use to independent application. The output current of the converter could be dimmed between 10%-100% by trailing or leading edge dimmers. The built-in protection circuit will shut down the converter in case of such faults as: open circuit, short circuit, over load. The power supply will restart automatically after fault correction.



#### Standards:

EN61347-1

EN61347-2-13

EN61547

EN55015

EN61000-3-2

EN61000-3-3

EN62384

EN62493

#### **Characteristics:**

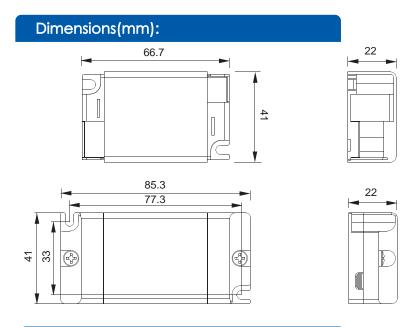
- Driver for built-in or independent use.
- Dimmable power supply for constant current LED lamp
- Used for lighting equipment in protection class I and II
- The output current of the power supply could be dimmed between 10%-100% by trailing edge or leading edge dimmers
- · Open circuit, short circuit, over load protection
- Ripple free
- warranty: 5 years



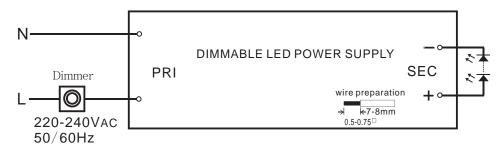
## Specifications:

turn on time(\$) cutput current(rich) cutput current tolerance     style="background-color: lighter;" style="background-co	Model		SLD8-350IB-Es SLD8-350IL-Es	
output current tolerance      SS% (Voul:14-22V)    27% (Voul:12-22V)		turn on time(S)		
ripple current(<200hZ)  working voltage range(V)  Max. output voltage(V)  dimming interface  dimming range  depending by the dimmer.minimum 10%  rated supply voltage(Vac)  voltage range(Vac)  line frequency(tz)  input current(mA)  efficiency  power factor  over voltage protection  short circuit protection  vover temperature protection  vover temperature protection  automatic restart  over load protection  Ambient and Life  Armbient and Life  Other  Other  Other  Note  Note  Note  Note  In power sinch desired in the following and	Output	output current(mA)	350	
Vertical Content of the Content o		output current tolerance	≤5% (Vout:14-22V) ≤7% (Vout:12-22V)	
Mex. output voltage(V)   40		ripple current(<200hZ)	≤3%	
dimming interface dimming range  depending by the dimmer.minimum 10%  rated supply voltage(Vac)  voltage range(Vac)  line frequency(Hz)  fingt current(mA)  input current(mA)  efficiency  power factor  nover voltage protection  short circuit protection  vor voltage protection  automatic restart  over load protection  yes  automatic restart  vor load protection  yes  surge capacity  L-Nu0.5KV  Ta(C)  7c max. (C)  85  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  velight(g)  dimensions (LxWxH)(mm)  seaing material  housing colour  protection  protection class  1. Toleronce : includes set up toleronce, line regulation and load regulation. 2. Tested at full load 2,330 vac. Refer to "Power Factor" and "EFFICIENT" curve graphs. 3. All pour meters NOT specially mentioned are measured of nominal voltage input, rated load, 25 of ambient temperature and no dimmer.  4. The power supply is considered as a component that will be operated in combination, lift nice equipment manufactures must re-qualify		working voltage range(V)	12-22	
dimming range   depending by the dimmer,minimum 10%   220-240		Max. output voltage(V)	40	
rated supply voltage(Vac)  voltage range(Yac)  line frequency(Hz)  so/60  line frequency(Hz)  so/60  line frequency(Hz)  so/60  input current(mA)  efficiency  power factor  over voltage protection  short circuit protection  ver soltage protection  automatic restart  over load protection  yES  surge capacity  Ta(C)  To max. (C)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  weight(g)  dimensions (LxWxH)(mm)  casing material  housing colour  type of protection  protection  Note  1.1olerance: includes set up holerance, line regulation and load regulation. 2.1ested of full load,230Vac.Refer to Power Foactor' and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured of norminal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be directed by the complete installation, to mind la equipment monufacturers must re-qualify		dimming interface	Triac dimmer from customer	
voltage range(Vac)   198-264     line frequency(Hz)   50/60     linput current(mA)   60     efficiency		dimming range	depending by the dimmer, minimum 10%	
Input   Input   Input   Input current(mA)   60		rated supply voltage(Vac)	220-240	
Input   Input current(mA)   60   efficiency		voltage range(Vac)	198-264	
efficiency ○ 273%  power factor ○ 0.90c without dimmer@full load  inrush current(lpk)		line frequency(Hz)	50/60	
power factor ○ 0.90c without dimmer@full load  Inrush current(lpk)	Input	input current(mA)	60	
Inrush current(lpk)  over voltage protection  short circuit protection  short circuit protection  yES  over temperature protection  automatic restart  over load protection  TeS  surge capacity  Ta(C)  To max. (C)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  weight(g)  dimensions (LxWxH)(mm)  storage material  housing colour  type of protection  protection leass  1. Tolerance: includes set up tolerance, line regulation and load regulation. 2. Tested at full load 230Vac, Refer to "Power Factor" and "EFFICIENT" curve graphs. 3. All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no climmer.  4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be offected by the complete installation, the final equipment manufacturers must re-qualify		efficiency <sup>2</sup>	≥73%	
Protection  Protection  Protection  Protection  Ambient and Life  Other  Note  Note  Note  To cover voltage protection  Short circuit protection  Short circuit protection  YES  Over temperature protection  YES  VES  VES  VES  VES  Surge capacity  L-N:0.5KV  Ta(C)  7-2050  To max. (C)  85  Storage Temperature(C)  3-3070  ambient humidity range A5%85%RH, Not condensing  nominal life-time(hrs)  S0000@Tc=85 C  weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  housing colour  type of protection  protection class  CLASS II  1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load 230Vac, Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be offected by the complete installation, the final equipment manufacturers must re-qualify		power factor 2	0.90c without dimmer@full load	
Short circuit protection  short circuit protection  were temperature protection  automatic restart  over load protection  surge capacity  Ta(°C)  To max. (°C)  To max. (°C)  To max. (°C)  To max. (°C)  To mode the thindity range  nominal life-time(hrs)  weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  Plastic  housing colour  forey+Blue  type of protection  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load, 230Vac. Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		inrush current(lpk)	-	
Protection  over temperature protection  automatic restart  over load protection  surge capacity  Ta(C)  To max. (C)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  Storage Temperature(C)  ambient humidity range  protection  protection  Storage Temperature(C)  ambient humidity range  45%85%RH, Not condensing  nominal life-time(hrs)  Storage Temperature(C)  ambient humidity range  protection  protection  Storage Temperature(C)  ambient humidity range  protection  protection  Storage Temperature(C)  ambient humidity range  protection  Storage Temperature(C)  ambient humidity range  protection  Storage Temperature(C)  ambient humidity range  protection  protection  IP20  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation.  2.Tested at full load,230 Vac.Refer to "Power Ractor" and "EFFICIENT" curve graphs.  3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer.  4.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 manufacturers must re-qualify		over voltage protection	320Vac,1 hour	
Ambient and Life  Ta(C)  Tc max. (C)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  Weight(g)  dimensions (LxWxH)(mm)  casing material  housing colour  type of protection  protection class  1.Tolerance : includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230 vac. Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		short circuit protection	YES	
automatic restart  over load protection  surge capacity  L-N:0.5KV  Ta(C)  7c max. (C)  Storage Temperature(C)  ambient humidity range  A5%85%RH, Not condensing  nominal life-time(hrs)  solution  weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  housing colour  type of protection  protection class  CLASS II  1.Tolerance : includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230/vac.Refer to <sup>1</sup> Power Factor' and "EFFICIENT"curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify	Protection	over temperature protection	YES	
surge capacity  Ta(C)  To max. (C)  Storage Temperature(C)  ambient humidity range  nominal life-time(hrs)  Weight(g)  casing material  housing colour  type of protection  protection class  1. Tolerance: includes set up tolerance, line regulation and load regulation. 2. Tested at full load, 230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3. All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4. 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 manufacturers must re-qualify	FIOIECIIOII	automatic restart	YES	
Ta(°C)  To max. (°C)  Storage Temperature(°C)  ambient humidity range  nominal life-time(hrs)  Storage Temperature(°C)  ambient humidity range  45%85%RH, Not condensing  nominal life-time(hrs)  S0'000@Tc=85 °C  weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  Plastic  housing colour  Grey+Blue  type of protection  IP20  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		over load protection	YES	
To max. (°C)  Storage Temperature(°C)  ambient humidity range  Afs85%RH, Not condensing  nominal life-time(hrs)  So'000@Tc=85 C  weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  Plastic  housing colour  Grey+Blue  type of protection  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to''Power Factor'' and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		surge capacity	L-N:0.5KV	
Ambient and Life  Storage Temperature(C)  ambient humidity range  150'000@Tc=85C  weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  housing colour  type of protection  protection class  CLASS II  1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		Ta(℃)	-2050	
and Life  ambient humidity range  nominal life-time(hrs)  weight(g)  casing material  housing colour  type of protection  protection class  1. Tolerance: includes set up tolerance, line regulation and load regulation. 2. Tested at full load, 230 Vac. Refer to "Power Factor" and "EFFICIENT" curve graphs. 3. All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4. 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 manufacturers must re-qualify		Tc max. (℃)	85	
Ass85%RH, Not condensing  nominal life-time(hrs)  50'000@Tc=85°C  weight(g)  dimensions (LxWxH)(mm)  85,3x41x22/66,7x41x22  casing material  Plastic  housing colour  Grey+Blue  type of protection  IP20  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		Storage Temperature(℃)	-3070	
Weight(g)  dimensions (LxWxH)(mm)  85.3x41x22/66.7x41x22  casing material  Plastic  housing colour  Grey+Blue  type of protection  IP20  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		ambient humidity range	45%85%RH, Not condensing	
dimensions (LxWxH)(mm)  casing material  Plastic  housing colour  type of protection  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		nominal life-time(hrs)	50'000@Tc=85 C	
Casing material  Plastic  housing colour  type of protection  protection class  CLASS II  1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load, 230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify	Other	weight(g)	-	
housing colour  type of protection  protection class  CLASS II  1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		dimensions (L×W×H)(mm)	85.3x41x22/66.7x41x22	
housing colour  type of protection  IP20  protection class  CLASS II   1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		casing material	Plastic	
Protection class  1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		housing colour	Grey+Blue	
1.Tolerance: includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer. 4.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 manufacturers must re-qualify		type of protection	IP20	
2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs.  3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer.  4.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 manufacturers must re-qualify		protection class	CLASS II	
	Note	2.Tested at full load, 230Vac. Refer to "Power Factor" and "EFFICIENT" curve graphs.  3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer.  4.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 manufacturers must re-qualify		





### Wiring diagram:



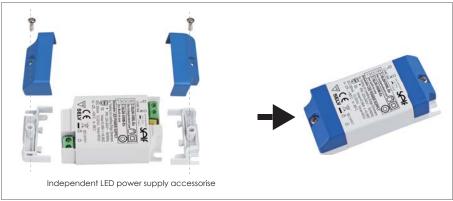
Caution: Please check with techncians when connecting dimmers other than ABB 6526U-500\_II1, KAOYIKUD-500RV, JUNG 244EX.

## Application:

Built-in application

Independent application







# Sales & Technical Support:

#### Self Electronics Co.,Ltd.

Add: No. 1345 Ju Xian Road, Ningbo Hi Tech Park, Ningbo,

Tel: 0086-574-28805765,28805658(For English Assistance) 0086-574-28805678 (For Chinese Assistance)

Fax: 0086-574-28805656 E-mail: sales@self-ecg.com http://www.self-ecg.com

#### **SELF ELECTRONICS GERMANY GMBH**

Add:August-Horch-Str. 7,51149 Koeln Tel: 0049 2203 18501-0 Fax: 0049 2203 18501-199 E-mail: saleseu@self-electronics.com

# Self Electronics Co.,Ltd.,Shenzhen Office

Add: Room2007, Xinglang Xuan, Xinghe Mingju, Fuming Road, Futian District, Shenzhen Tel: 0086-755-83558850, 83558851 Fax: 0086-755-83558840



<sup>\*</sup>Due to continuous improvements and innovations, specifications are subjected to change without notice.