

# Constant Current LED Power Supply Phasecut Dimmable



## Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant current (CC) technology, it is suitable for constant current lamps (500/600/700/800/900/1050mA) connected in a series.

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, over temperature. 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

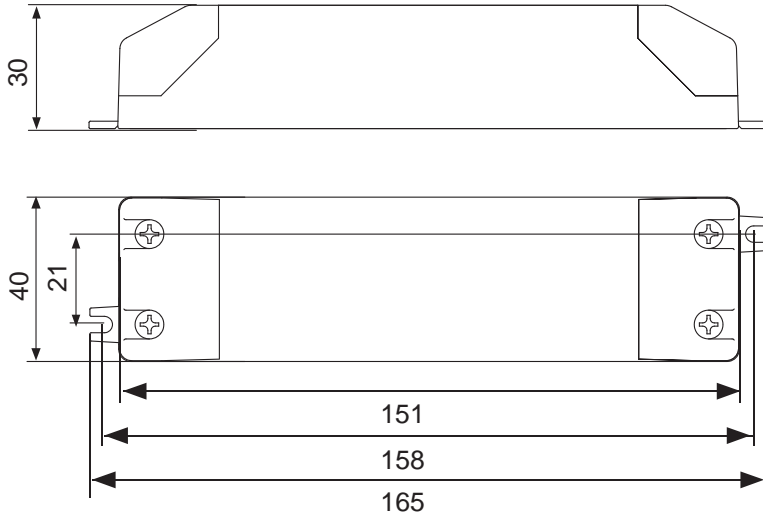
## Characteristics:

- Independent dimmable power supply for constant current LED lamp
- Class II protection against electric shock from direct and indirect contact
- Used for lighting equipment in protection class I and II.
- The output current could be dimmed between 10%-100% by trailing edge or leading edge dimmers  
Ripple free constant output current
- High compatible for different dimmers
- Quiet design, working noise is less than 30dB
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- 5 years warranty

## Specifications :

Model	SLD30-500IL-Es	SLD30-600IL-Es	SLD30-700IL-Es	SLD40-700IL-Es	SLD40-800IL-Es	SLD40-900IL-Es	SLD40-1050IL-Es	
Output	turn on time(S)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	
	output current(mA)	500	600	700	700	800	1050	
	output current tolerance <sup>①</sup>	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%	
	ripple current(mA)	30	30	60	50	50	70	
	working voltage range(V)	30-60	25-50	22-44	30-55	25-50	22-44	
	Max. output voltage(V)	72	63	50	63	63	50	
	dimming interface	Leading or Trailing Edge						
	dimming range	10-100%						
Input	rated supply voltage(Vac)	220-240	220-240	220-240	220-240	220-240	220-240	
	voltage range(Vac)	198-264	198-264	198-264	198-264	198-264	198-264	
	line frequency(Hz)	50/60	50/60	50/60	50/60	50/60	50/60	
	input current(mA)	160	160	160	210	210	210	
	efficiency <sup>②</sup>	86%	86%	85%	87%	87%	86%	
	power factor <sup>②</sup>	0.9	0.9	0.9	0.95	0.95	0.9	
	inrush current(Ipk)	19A/2uS	19A/2uS	19A/2uS	19A/2uS	19A/2uS	19A/2uS	
Protection	over voltage protection	320Vac, 1 hour						
	short circuit protection	In case of a short circuit on the secondary side, the ECG will switch off						
	over temperature protection	ECG switches off if the temperature reaches a certain degree						
	automatic restart	ECG works in pulsed light output mode						
	over load protection	After elimination of the fault condition the ECG will recover automatically						
	surge capacity	L-N:1KV						
Ambient and Life	Ta(°C)	-20...40						
	Tc max. (°C)	75						80
	Storage Temperature(°C)	-30...80						
	ambient humidity range	5%...85%RH, Not condensing						
	nominal life-time(hrs)	50'000@Tc=75 C						
Other	weight(g)	220						
	dimensions (LxWxH)(mm)	165x40x30						
	casing material	Plastic						
	housing colour	Grey+Blue						
	type of protection	IP20						
	protection class	CLASS II						
Note	<p>1.Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs.</p> <p>3.All parameters NOT specially mentioned are measured at nominal voltage input, rated load, 25 of ambient temperature and no dimmer.</p> <p>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 EMC Directive on the complete installation again.</p>							

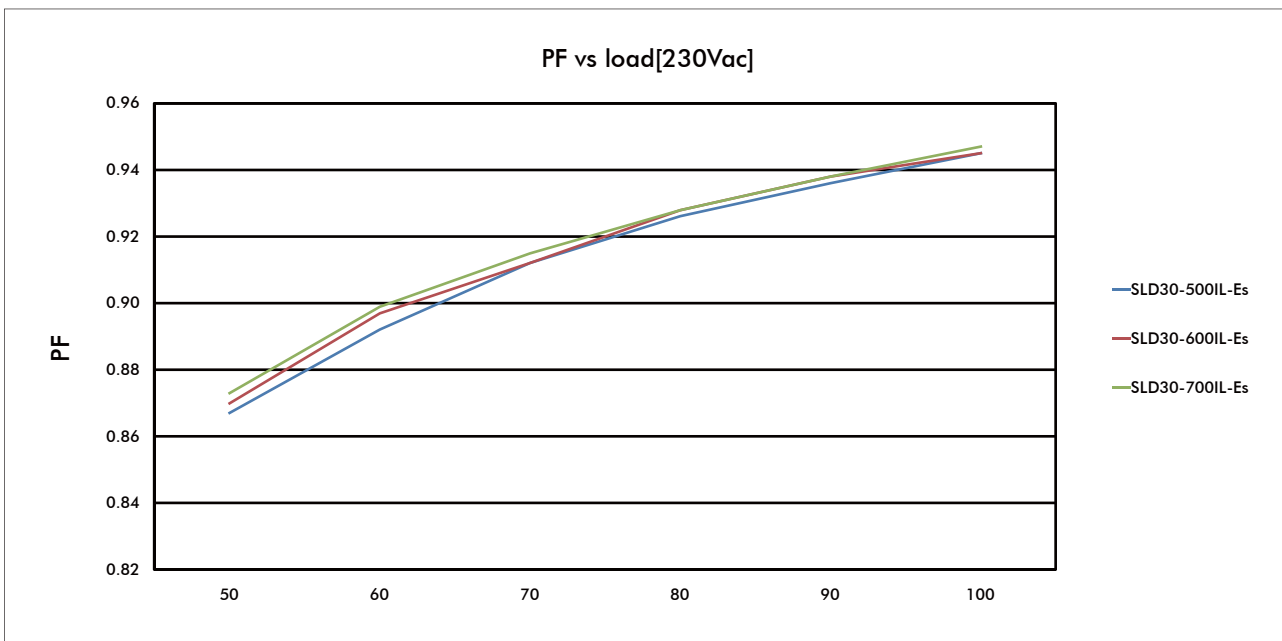
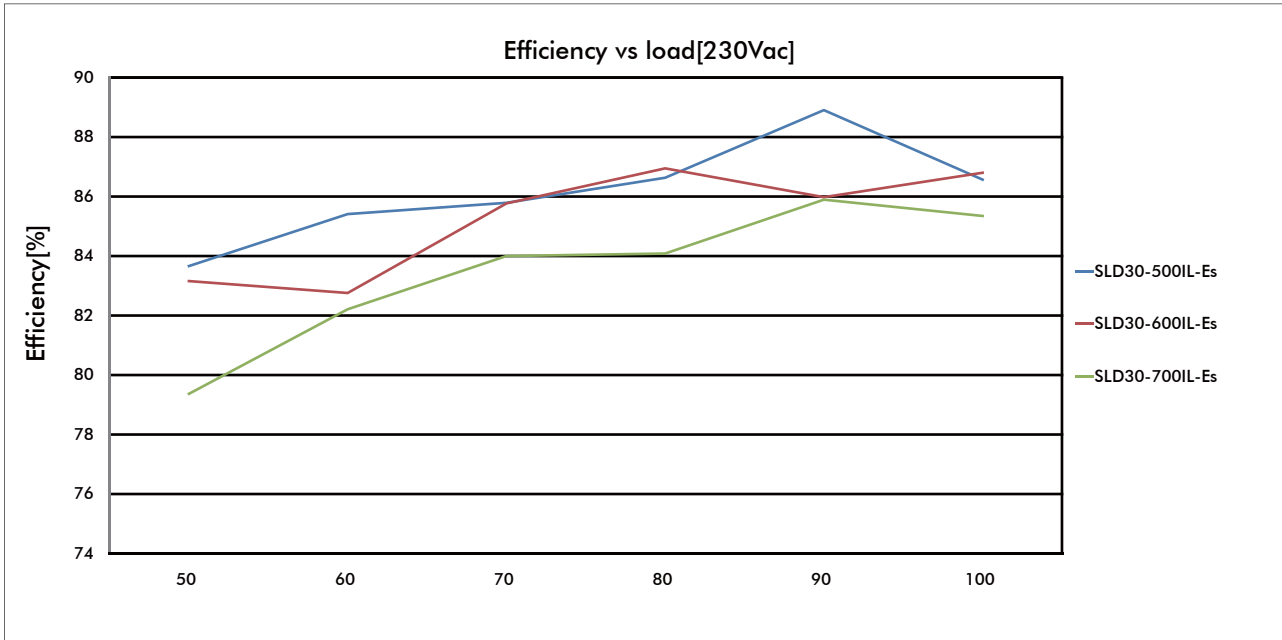
### Dimensions(mm):



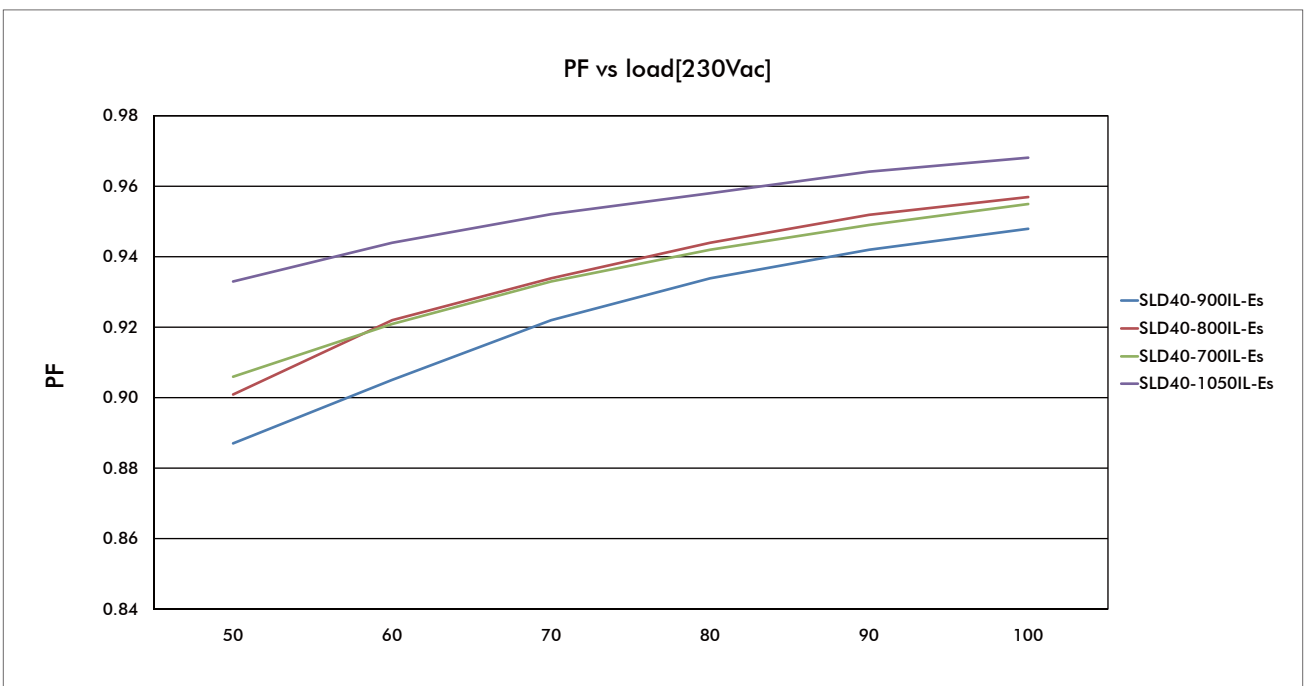
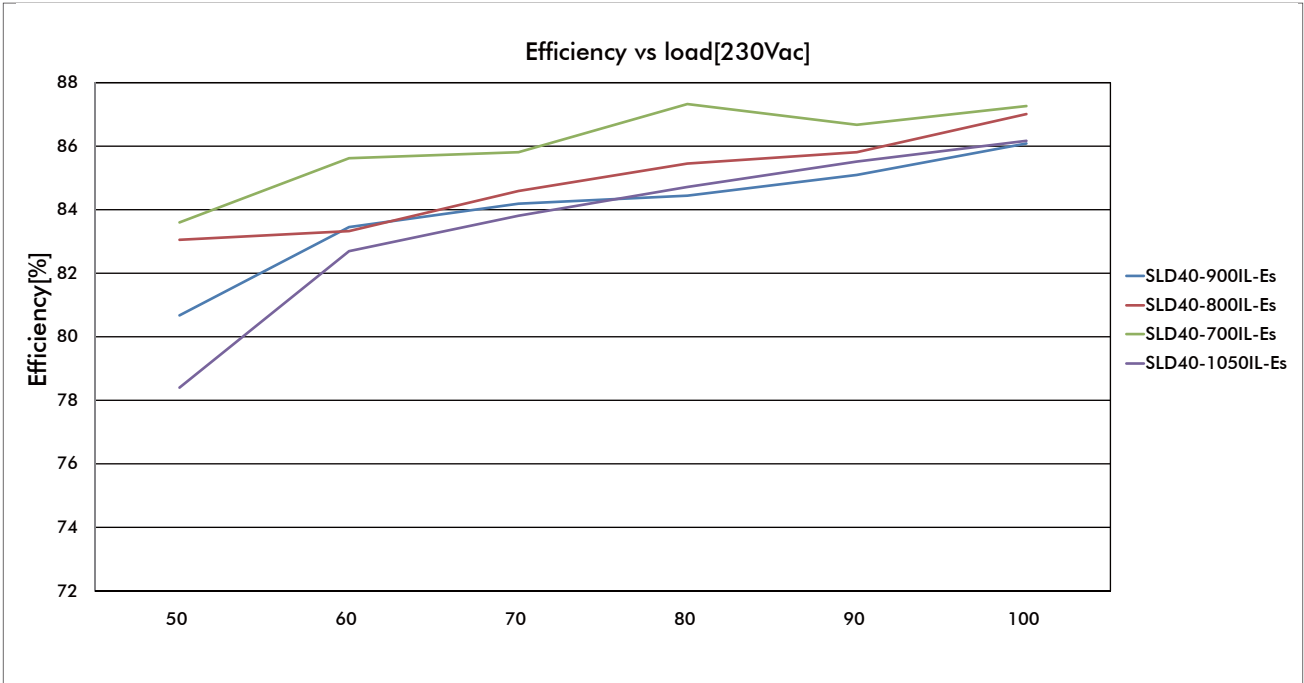
### Wiring diagram:



Electrical curves:



### Electrical curves:



## Dimmer list approved by SELF:

Manufacturer	Model
SELF	SD910
SELF	SD810
Busch	6523U
Ygonix	33594C
Legrand	VRCM2
Schneider	pure
SCHNEIDER	220V50Hz400W
Siemens	230V50Hz 400Wmax
T&J	220V 50Hz 630Wmax
CHNT	220V 50Hz 500Wmax
ABB	220V 50Hz 600Wmax
GIRA	2262 00/101
Duwi	DW700DA
VIMAR	14150/14153
Panasonic	WMK549
JUNG	225 TDE
Busch	6513U
SIMON	45E101
PROSPERING	03-0059

If flickering was observed, please contact SELF sales for possible solution

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