

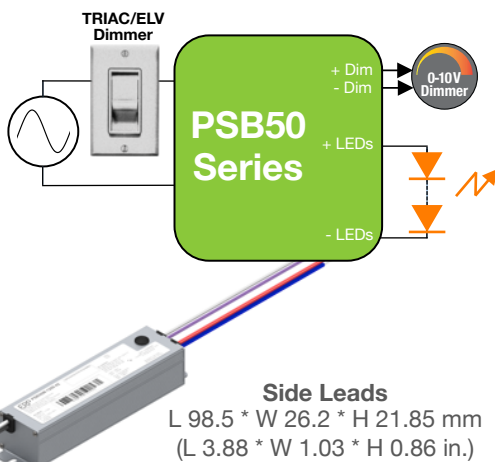


# PSB50/40/30 Series

PSB50 50 W  
 PSB40 40 W  
 PSB30 30 W

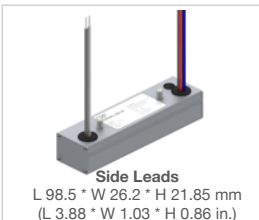
## 50, 40 & 30 W Programmable Constant Current LED Driver with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

Nominal Input Voltage	Max. Output Power	Efficiency	Max. Case Temperature	THD	Power Factor	Dimming Method	Dimming Range	Startup Time
120/277 Vac, 220 to 240 Vac	50 W	up to 90% typical	90°C (measured at the hot spot)	< 20% (from 100% to 50% of max rated power)	> 0.9 (from 100% to 50% of max rated power)	Forward-Phase, Reverse-Phase & 0-10V	1 - 100% (% of Iout)	300 ms typical



Part Number	Nominal Input Voltage (Vac)	Max Output Power (W)	Iout (mA)	Output Voltage Range (Vdc)	
				Min.	Max.
<b>120/277 VAC NOMINAL INPUT VOLTAGE</b>					
<b>PSB30W</b>					
PSB30W-0700-42	120/277	29.4	350 to 700	28	42
PSB30W-1050-27	120/277	28.4	525 to 1050	18	27
PSB30W-0700-34	120/277	27.2	350 to 700	23	34
<b>PSB40W</b>					
PSB40W-1400-27	120/277	37.8	700 to 1400	18	27
<b>PSB50W</b>					
PSB50W-0550-85	120/277	46.8	275 to 550	57	85
PSB50W-0850-56	120/277	47.6	425 to 850	38	56
PSB50W-1200-42	120/277	50.4	600 to 1200	28	42
PSB50W-1400-34	120/277	47.6	700 to 1400	23	34
<b>120/277 VAC NOMINAL INPUT VOLTAGE</b>					
<b>PSB30W</b>					
PSB30W-0700-42-S	120/277	29.4	350 to 700	28	42
PSB30W-1050-27-S	120/277	28.4	525 to 1050	18	27
PSB30W-0700-34-S	120/277	27.2	350 to 700	23	34
<b>PSB40W</b>					
PSB40W-1400-27-S	120/277	37.8	700 to 1400	18	27
<b>PSB50W</b>					
PSB50W-0550-85-S	120/277	46.8	275 to 550	57	85
PSB50W-0850-56-S	120/277	47.6	425 to 850	38	56
PSB50W-1200-42-S	120/277	50.4	600 to 1200	28	42
PSB50W-1400-34-S	120/277	47.6	700 to 1400	23	34
<b>220 to 240 VAC NOMINAL INPUT VOLTAGE</b>					
<b>PSB30W</b>					
PSB30W-0700-42-T	220 to 240	29.4	350 to 700	28	42
PSB30W-1050-27-T	220 to 240	28.4	525 to 1050	18	27
PSB30W-0700-34-T	220 to 240	27.2	350 to 700	23	34
<b>PSB40W</b>					
PSB40W-1400-27-T	220 to 240	37.8	700 to 1400	18	27
<b>PSB50W</b>					
PSB50W-0550-85-T	220 to 240	46.8	275 to 550	57	85
PSB50W-0850-56-T	220 to 240	47.6	425 to 850	38	56
PSB50W-1200-42-T	220 to 240	50.4	600 to 1200	28	42
PSB50W-1400-34-T	220 to 240	47.6	700 to 1400	23	34

### OTHER MOUNTING OPTIONS



### FEATURES

- Non-linear 0-10V dimming profile with dim-to-off (10V to 9.1V=100%, 1.5V to 0.6V=1%, <0.6V=dim-to-off)
- UL Class P
- Class 2 power supply
- Lifetime: 50,000 hours @ Tc = 75°C
- 90°C maximum case hot spot temperature
- IP20-rated (IP64 as option) case with silicone-based potting
- Surge protection:
  - IEC61000-4-5: 2 kV line to line/2 kV line to earth
  - 2.5 kV ring wave: ANSI/IEEE c62.41.1-2002 & c62.41.2-2002 category A
- Complies with ENERGY STAR®, DLC (DesignLight Consortium®) and CA Title 24 technical requirements

### PROGRAMMING

- Serial port programming
  - Current: 100% to 50% in each voltage range
  - Data log read: SKU, S/N, lot code, hours of operation, FW rev., fault events: power failure, transients (short or surge), thermal
- Fully programmable and selectable 0-10V dimming profiles: Non-linear with dim-to-off, Logarithmic, Non-Linear without dim-to-off.

Suffix for the different mounting options:  
 1) NO suffix: side leads  
 2) "-T" European terminal blocks  
 3) "-S" Bottom lead exit with studs



**CHINA Operations**  
 tel: +86-756-6266298  
 No. 8 Pingdong Road 2  
 Zhuhai, Guangdong, China 519060

[www.erp-power.com](http://www.erp-power.com)

[SaveEnergy@erp-power.com](mailto:SaveEnergy@erp-power.com)

**USA Headquarters**  
 tel: +1-805-517-1300  
 893 Patriot Drive, Suite E  
 Moorpark, CA 93021, USA