

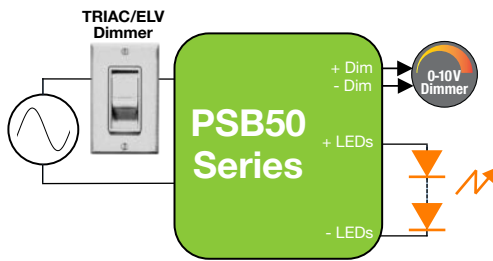


PSB50/40/30 Series

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 to 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)	200 ms typical



Aluminum Case
 L 98.5 * W 25.4 * H 19.05 mm
 (L 3.88 * W 1.00 * H 0.75 in.)

OTHER MOUNTING OPTIONS



Bottom Leads with Studs



European Terminal Blocks

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

Part Number	Nominal Input Voltage (Vac)	Max Output Power (W)	Iout (mA)	Output Voltage Range (Vdc)	
				Min.	Max.
120 to 277 VAC NOMINAL INPUT VOLTAGE					
PSB30W					
PSB30W-0700-42	120 to 277	29.4	350 to 700	28	42
PSB30W-1050-27	120 to 277	28.4	525 to 1050	18	27
PSB30W-0800-34	120 to 277	27.2	400 to 800	23	34
PSB40W					
PSB40W-1400-27	120 to 277	37.8	700 to 1400	18	27
PSB50W					
PSB50W-0550-85	120 to 277	46.8	275 to 550	57	85
PSB50W-0850-56	120 to 277	47.6	425 to 850	38	56
PSB50W-1200-42	120 to 277	50.4	600 to 1200	28	42
PSB50W-1400-34	120 to 277	47.6	700 to 1400	23	34
220 to 240 VAC NOMINAL INPUT VOLTAGE					
PSB30W					
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-0800-34-T	220 to 240	27.2	400 to 800	23	34
PSB40W					
PSB40W-1400-27-T	220 to 240	37.8	700 to 1400	18	27
PSB50W					
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

Suffix for the different mounting options:

- 1) NO suffix: side leads
- 2) "-T" European terminal blocks
- 3) "-X" Bottom lead exit with studs

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.



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