

## 50, 40 & 30 W Programmable CC Class 2 / Class II 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% | > 0.9        | Forward-Phase, Reverse-Phase & Programmable 0 - 10V | 1 - 100% (% of Iout) | 300 ms typical |



**Side Leads**  
L 98.5 \* W 26.2 \* H 21.85 mm  
(L 3.88 \* W 1.03 \* H 0.86 in.)



**Terminal Blocks: "-T" Suffix**  
L 154.2 \* W 26.25 \* H 21.85 mm  
(L 6.07 \* W 1.03 \* H 0.86 in.)



**Bottom Leads with Studs: "-S" Suffix**  
L 98.5 \* W 26.2 \* H 23.85 mm  
(L 3.88 \* W 1.03 \* H 0.94 in.)



**Suffix for the different case options:**  
1) No suffix: Side leads  
2) "-T": Terminal blocks  
3) "-S": Bottom lead exit with studs

| Part Number                                    | Nominal Input Voltage (Vac) | Max Output Power (W) | Iout (mA)   | Output Voltage Range (Vdc) |      | Case Type               |
|--|-----------------------------|----------------------|-------------|----------------------------|------|-------------------------|
|  |                             |                      |             | Min.                       | Max. |                         |
| <b>120 &amp; 277 VAC NOMINAL INPUT VOLTAGE</b> |                             |                      |             |                            |      |                         |
| <b>PSB30W</b>                                  |                             |                      |             |                            |      |                         |
| PSB30W-0700-42                                 | 120 & 277                   | 29.4                 | 350 to 700  | 28                         | 42   | Side Leads              |
| PSB30W-1050-27                                 | 120 & 277                   | 28.4                 | 525 to 1050 | 18                         | 27   | Side Leads              |
| PSB30W-0700-34                                 | 120 & 277                   | 27.2                 | 350 to 700  | 23                         | 34   | Side Leads              |
| <b>PSB40W</b>                                  |                             |                      |             |                            |      |                         |
| PSB40W-1400-27                                 | 120 & 277                   | 37.8                 | 700 to 1400 | 18                         | 27   | Side Leads              |
| <b>PSB50W</b>                                  |                             |                      |             |                            |      |                         |
| PSB50W-0550-85                                 | 120 & 277                   | 46.8                 | 275 to 550  | 57                         | 85   | Side Leads              |
| PSB50W-0850-56                                 | 120 & 277                   | 47.6                 | 425 to 850  | 38                         | 56   | Side Leads              |
| PSB50W-1200-42                                 | 120 & 277                   | 50.4                 | 600 to 1200 | 28                         | 42   | Side Leads              |
| PSB50W-1400-34                                 | 120 & 277                   | 47.6                 | 700 to 1400 | 23                         | 34   | Side Leads              |
| <b>120 &amp; 277 VAC NOMINAL INPUT VOLTAGE</b> |                             |                      |             |                            |      |                         |
| <b>PSB30W</b>                                  |                             |                      |             |                            |      |                         |
| PSB30W-0700-42-S                               | 120 & 277                   | 29.4                 | 350 to 700  | 28                         | 42   | Bottom leads with studs |
| PSB30W-1050-27-S                               | 120 & 277                   | 28.4                 | 525 to 1050 | 18                         | 27   | Bottom leads with studs |
| PSB30W-0700-34-S                               | 120 & 277                   | 27.2                 | 350 to 700  | 23                         | 34   | Bottom leads with studs |
| <b>PSB40W</b>                                  |                             |                      |             |                            |      |                         |
| PSB40W-1400-27-S                               | 120 & 277                   | 37.8                 | 700 to 1400 | 18                         | 27   | Bottom leads with studs |
| <b>PSB50W</b>                                  |                             |                      |             |                            |      |                         |
| PSB50W-0550-85-S                               | 120 & 277                   | 46.8                 | 275 to 550  | 57                         | 85   | Bottom leads with studs |
| PSB50W-0850-56-S                               | 120 & 277                   | 47.6                 | 425 to 850  | 38                         | 56   | Bottom leads with studs |
| PSB50W-1200-42-S                               | 120 & 277                   | 50.4                 | 600 to 1200 | 28                         | 42   | Bottom leads with studs |
| PSB50W-1400-34-S                               | 120 & 277                   | 47.6                 | 700 to 1400 | 23                         | 34   | Bottom leads with studs |
| <b>220 to 240 VAC NOMINAL INPUT VOLTAGE</b>    |                             |                      |             |                            |      |                         |
| <b>PSB30E</b>                                  |                             |                      |             |                            |      |                         |
| PSB30E-0700-42                                 | 220 to 240                  | 29.4                 | 350 to 700  | 28                         | 42   | Side Leads              |
| <b>PSB50E</b>                                  |                             |                      |             |                            |      |                         |
| PSB50E-1200-42                                 | 220 to 240                  | 50.4                 | 600 to 1200 | 28                         | 42   | Side Leads              |
| <b>220 to 240 VAC NOMINAL INPUT VOLTAGE</b>    |                             |                      |             |                            |      |                         |
| <b>PSB30W</b>                                  |                             |                      |             |                            |      |                         |
| PSB30E-0700-42-T                               | 220 to 240                  | 29.4                 | 350 to 700  | 28                         | 42   | Terminal blocks         |
| PSB30E-1050-27-T                               | 220 to 240                  | 28.4                 | 525 to 1050 | 18                         | 27   | Terminal blocks         |
| PSB30E-0700-34-T                               | 220 to 240                  | 27.2                 | 350 to 700  | 23                         | 34   | Terminal blocks         |
| <b>PSB40W</b>                                  |                             |                      |             |                            |      |                         |
| PSB40E-1400-27-T                               | 220 to 240                  | 37.8                 | 700 to 1400 | 18                         | 27   | Terminal blocks         |
| <b>PSB50W</b>                                  |                             |                      |             |                            |      |                         |
| PSB50E-0550-85-T                               | 220 to 240                  | 46.8                 | 275 to 550  | 57                         | 85   | Terminal blocks         |
| PSB50E-0850-56-T                               | 220 to 240                  | 47.6                 | 425 to 850  | 38                         | 56   | Terminal blocks         |
| PSB50E-1200-42-T                               | 220 to 240                  | 50.4                 | 600 to 1200 | 28                         | 42   | Terminal blocks         |
| PSB50E-1400-34-T                               | 220 to 240                  | 47.6                 | 700 to 1400 | 23                         | 34   | Terminal blocks         |

Strain reliefs for "-T" models can be ordered using part number SR2

### FEATURES

- Non-linear 0-10V dimming profile with dim-to-off (10V to 9.0V=100%, 1.5V to 0.7V=1%, <0.7V=dim-to-off)
- UL Class P
- Class 2 output power supply
- Lifetime: 50,000 hours @ Tc ≤ 75° C
- 90° C maximum case hot spot temperature
- IP20-rated case with silicone-based potting
- No TRIAC/ELV dimming for PSBxxE models, only 0-10V dimming
- Complies with ENERGY STAR®, DLC (DesignLight Consortium®), CA Title 24, and NEMA SSL-1-2016 technical requirements

### PROGRAMMING

- Current: 100% to 50% in each voltage range
- Data log read: SKU, S/N, lot code, hours of operation, FW revision, power cycles
- Fully programmable and selectable 0-10V dimming profiles: Non-linear with dim-to-off, Logarithmic, Non-Linear without dim-to-off

SELV Class 2



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