

# 45 Watt

## AC/DC - Desktop Power Supply



- o Universal Input 90-264 VAC
- o Continuous Short Circuit Protection
- o Meets EN55022 Class B, Conducted
- o High Efficiency, 82% typical



| MODEL NUMBER  | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE | VOLTAGE SETPOINT | LINE REGULATION | LOAD REGULATION |
|---------------|----------------|----------------|----------------|------------------|-----------------|-----------------|
| BACS45-5-C14  | 5 VDC          | 6000 mA        | 1%             | ±4%              | ±1%             | ±6%             |
| BACS45-12-C14 | 12 VDC         | 3750 mA        |                | ±2%              |                 | ±5%             |
| BACS45-15-C14 | 15 VDC         | 3000 mA        |                |                  |                 | ±3%             |
| BACS45-18-C14 | 18 VDC         | 2500 mA        |                |                  |                 | ±2%             |
| BACS45-19-C14 | 19 VDC         | 2370 mA        |                |                  |                 |                 |
| BACS45-24-C14 | 24 VDC         | 1880 mA        |                |                  |                 |                 |
| BACS45-48-C14 | 48 VDC         | 1000 mA        |                |                  |                 |                 |

### NOTE:

Voltage setpoint at 60% load.

Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measurement at 20 MHz BW.

Line regulation measurement from 100 Vac to 240 Vac, full load.

Load regulation measurement from 60% to full load and from 60% to 20% load (60% ± 40%load).

**SPECIFICATIONS**

All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

**INPUT SPECIFICATIONS**

|                                |                                    |
|--------------------------------|------------------------------------|
| Input Voltage Range            | 90-264 VAC                         |
| Frequency                      | 47 to 63 Hz                        |
| Inrush Current                 | 50 A max. @ 264 VAC                |
| Conducted EMI                  | CISPR/FCC Class B                  |
| Isolation                      | Input to Output = 4242 VDC         |
| Leakage Current                | 1.5 mA max.                        |
| Current Consumption at No Load | @ 115 Vac 40 mA<br>@ 230 Vac 50 mA |

**OUTPUT SPECIFICATIONS**

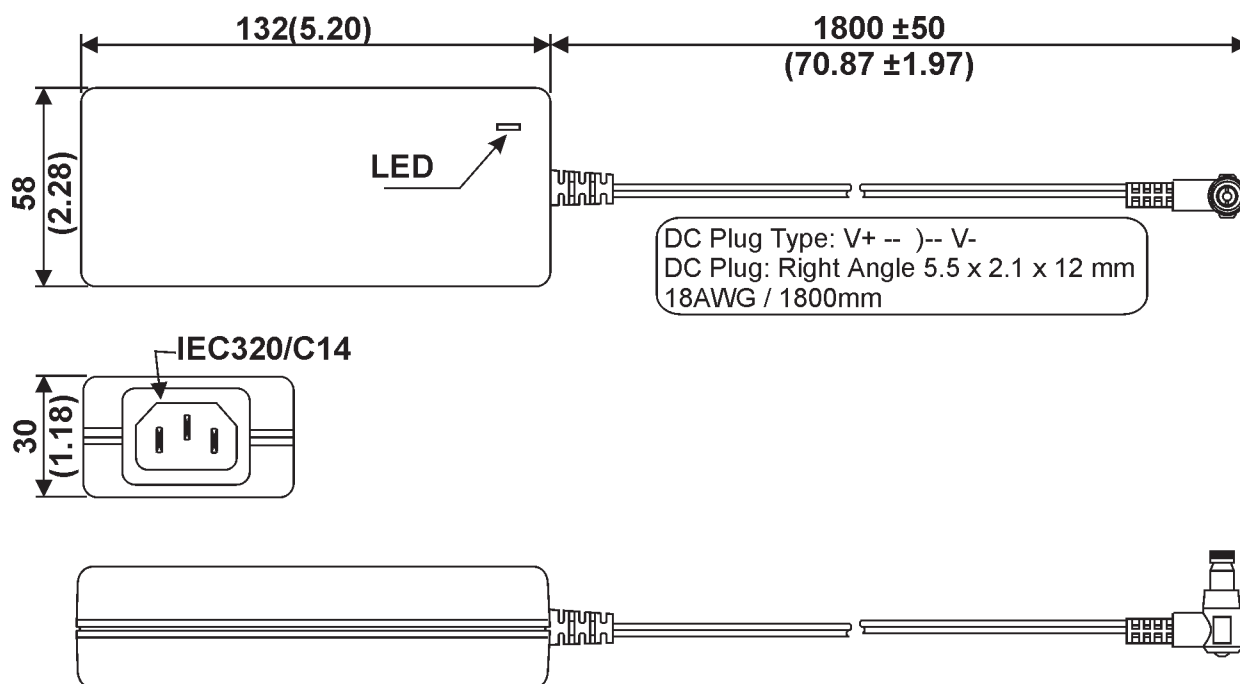
|                          |                            |
|--------------------------|----------------------------|
| Holdup Time              | 8 mS typ. @ 115 Vac        |
| Short Circuit Protection | Continuous (Auto Recovery) |
| Over Voltage Protection  | Option                     |

**GENERAL SPECIFICATIONS**

|                       |                                              |
|-----------------------|----------------------------------------------|
| Operating Temperature | 0°C to +40°C                                 |
| Storage Temperature   | -20°C to +85°C                               |
| Dimensions            | 132 x 58 x 30 mm (5.20 x 2.29 x 1.18 Inches) |
| Weight                | 0.77 Pounds                                  |
| DC-Output Plug        | Right Angle<br>5.5 x 2.1 x 12 mm<br>Center+  |
| DC-Cord               | 18 AWG / 1800 mm                             |
| AC-Inlet              | IEC320/C14                                   |

**SPECIFICATIONS**

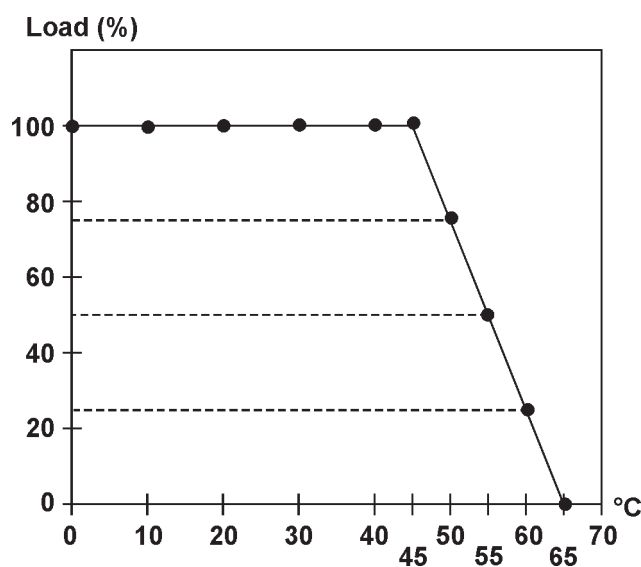
All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

**MECHANICAL SPECIFICATIONS**

All Dimensions in mm (Inches)

**DERATING DIAGRAM**

| °C       | 0   | 10  | 20  | 30  | 40  | 45  | 50 | 55 | 60 | 65 |
|----------|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Load (%) | 100 | 100 | 100 | 100 | 100 | 100 | 75 | 50 | 25 | 0  |

**NOTICE:**

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.