

BB-SDI18-5-U-P5

5Vdc, 3A, 15W Power Supply



Features

- Up to 18 W continuous power
- No-load power consumption < 0.075 W
- Universal input voltage range
- Over voltage, over current, and short circuit protections
- IEC 62368-1 and 60950-1 compliant
- DoE Level VI and CoC Tier 2 compliant
- UL/cUL, GS, PSE safety approvals
- Limited Power Source (LPS) rated
- RoHS, REACH compliant

Introduction

Model BB-SDI18-5-U-P5 is a 15W desktop AC-DC power supply with C14 inlet designed to meet US DoE Level VI efficiency standards in addition to the more stringent EU CoC Tier 2 requirements. Featuring a range of safety approvals and no-load power consumption less than 0.075 W, this desktop power adapter keeps you one step ahead of the latest power regulations

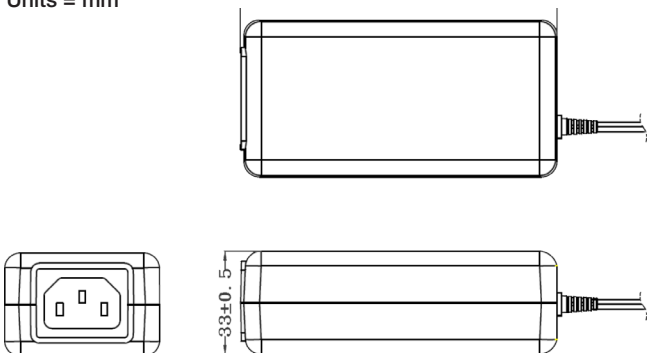
Ordering Information

Model No.	Output Voltage (Vdc)	Output Current (A, max.)	Output Power (W, max.)	Ripple & Noise (mVp-p, max.)	Output Plug
BB-SDI18-5-U-P5	5	3	15	100	Standard DC Straight Plug

1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 μ F multi-layer ceramic and 10 μ F low ESR electrolytic capacitors.

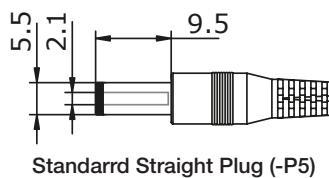
Mechanical Drawing – Power Supply

Units = mm



Mechanical Drawing – Output Plug

Units = mm



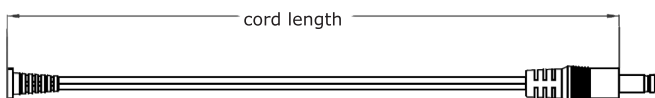
Plug Polarity

Plug Polarity:
Center Positive (-P5)



Mechanical Drawing – DC Cord

Units = mm



Model No.	Cable	Cord Length
BB-SDI18-5-U-P5	UL2468, 16 AWG	1,500 mm \pm 30

Specifications

Parameter	Conditions / Description	Minimum	Typical	Maximum	Units
Power - Input					
Voltage	-	90	-	264	Vac
Frequency	-	47	-	63	Hz
Current	At full load	-	-	0.48	A
In-rush Current	At 100 Vac, full load, 25 °C, cold start	-	-	50	A
	At 230 Vac, full load, 25 °C, cold start	-	-	60	A
Leakage Current	-	-	-	3.5	mA
No-load Power Consumption	At 230 Vac	-	-	0.075	W
Power - Output					
Regulation	5 Vdc output	-	± 6	-	%
Hold-up Time	At full load	10	-	-	ms
Protections					
Over-Voltage Protection	5 Vdc output (output shut-down)	-	-	12	Vdc
Over-Current Protection	5 Vdc output (output shut down, auto-recovery)	-	-	7	A
Short Circuit Protection	Output shut down, auto recovery	-	-	-	-
Environmental					
Operating Temperature	-	0	-	40	°C
Storage Temperature	-	-20	-	80	°C
Operating Humidity	Non-condensing	20	-	80	%
Storage Humidity	Non-condensing	10	-	90	%
Mechanical					
Dimensions	100 x 50 x 33	-	-	-	mm
AC Inlet Plug Type	IEC320/C14	-	-	-	-
Weight	Without AC cord	-	170	-	g
Safety					
Isolation Voltage	Input to output at 10 mA for 1 minute.	-	3,000	-	Vac
	Input to frame ground at 10 mA for 1 minute.	-	1,500	-	Vac
Isolation Resistance	Input to output at 500 Vdc	10	-	-	MΩ
Regulatory – Approvals / Standards / Directives					
Safety Approvals	UL/cUL, GS, PSE	-	-	-	-
EMI/EMC	FCC Part 15B Class B, CE	-	-	-	-
MTBF	As per Telcordia SR-332, 25 °C	300,000	-	-	hours
RoHS	Yes	-	-	-	-
REACH	Yes	-	-	-	-