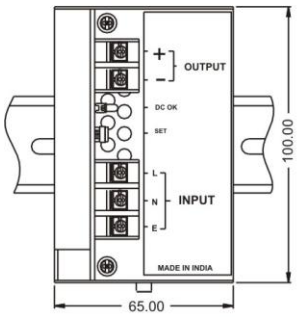
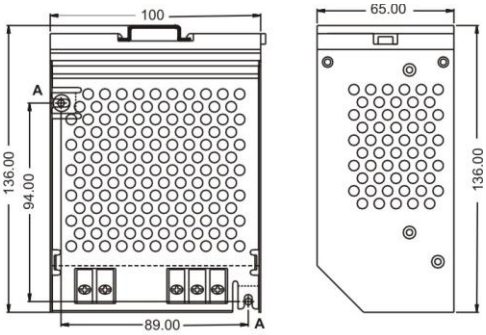
BLACK SERIES SMPS 120W SINGLE OUTPUT

IS 13252(Part 1):2010
IEC 60950-1:2005
R-71016276
www.bis.gov.in



DIN Rail Mounting



A : Base Mounting holes suitable for M3 screw

Base Mounting

All dimensions in mm

FEATURES	• Single Phase Input • Built In Transient protector & EMI filter • Protection against short circuit, overload & overvoltage • Low ripple & noise • Cooling by free air convection • Power OK indication, terminations, output set control & rating details on front • 100% full load burn in tested • Low cost • High reliability • Compact
ISOLATION	Input – Output : 3KVAC, 1 minute Input – Earth : 2KVAC, 1 minute Output – Earth : 0.5KVAC, 1 minute
EFFICIENCY	80 ~ 85% with input 230VAC & full load at output.
OUTPUT VOLTAGE ADJUSTMENT	+/- 10% of nominal output voltage
LINE & LOAD REGULATION	Better than 0.5%
OVERLOAD PROTECTION	105% ~ 130% of rated load
HOLD UP TIME	> 20ms at rated input voltage and load (Refer Fig.2)
OPERATING AMBIENT	0 ~ 50°C, 95% RH
STORAGE AMBIENT	-20°C to 85°C
SAFETY STANDARD	IS 13252(Part 1):2010/IEC 60950-1:2005
EMC STANDARD	Design refers to EN55022, EN55024
APPROVAL / MARK	BIS MARKED
TERMINATIONS	45 Deg. Screw type, for 2.5mm sq. wire
MOUNTING	35 mm DIN rail & Screw Mounting
WEIGHT	580 grams

ORDERING INFORMATION

INPUT VOLTAGE	AC	DC	OUTPUT	RIPPLE & NOISE	OVERVOLTAGE PROTECTION
NOMINAL INPUT	230V	230V			
INPUT RANGE	185 ~ 270V	200 ~ 360V			
INPUT FREQUENCY	47 ~ 63Hz	—			
INPUT CURRENT (max)	1.5A @230V	0.6A @230V			
INRUSH CURRENT	32A @230V	23A @230V			
ORDER CODE	BL1280		12V : 8.0A	< 120mV	<16V
	BL1580		15V : 8.0A	< 150mV	< 20V
	BL2450		24V : 5.0A	< 240mV	< 30V
	BL3630		36V : 3.3A	< 360mV	< 45V
	BL4825		48V : 2.5A	< 480mV	< 63V

Note : 1. All parameters measured at nominal input, rated load and 25°C of ambient temperature unless otherwise specified.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 100uf parallel capacitor.
3. The power supply is intended to be installed as a component inside the enclosure of final equipment. The final equipment must be re-confirmed that it still meets the EMC directives.
4. These units are designed for mounting on horizontal DIN rail. Ensure clearance of minimum 35mm from adjacent components for proper ventilation.

Derating

Ambient temperature Vs Load current

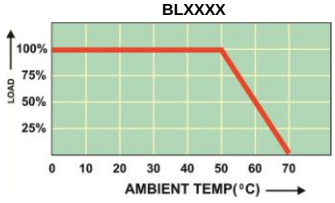


FIG.1

Brown – Out Sustainability

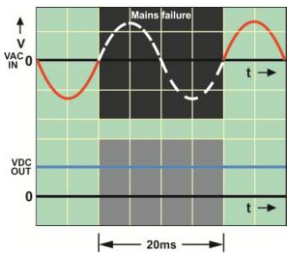


FIG.2

Output Characteristics

Input voltage Vs Load current

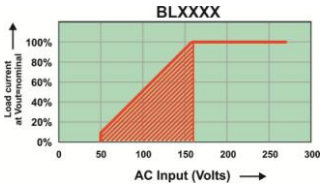


FIG.3

FIG.4