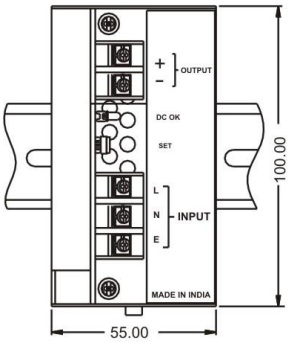
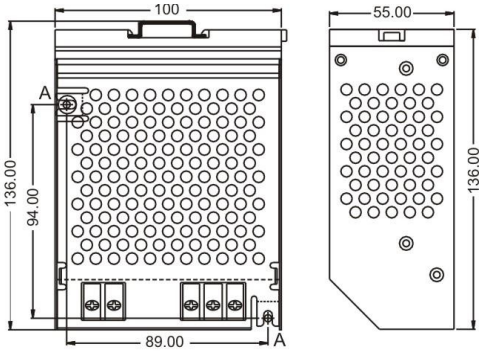
BLACK SERIES SMPS 60W SINGLE OUTPUT

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	480 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)	1.0A @230V	0..35A @230V			
INRUSH CURRENT	32A @230V	23A @230V			
ORDER CODE	BL0580		5V : 8.0A	< 100mV	< 7V
	BL1250		12V : 5.0A	< 120mV	< 16V
	BL1540		15V : 4.0A	< 150mV	< 20V
	BL2425		24V : 2.5A	< 240mV	< 30V
	BL4812		48V : 1.25A	< 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.

Derating

Ambient temperature Vs Load current

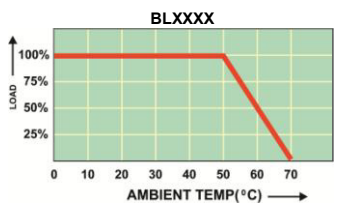


FIG.1

Brown – Out Sustainability

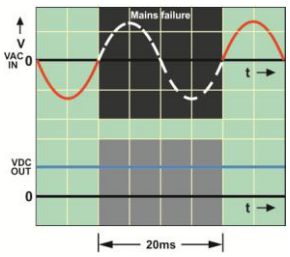


FIG.2

Output Characteristics

Input voltage Vs Load current

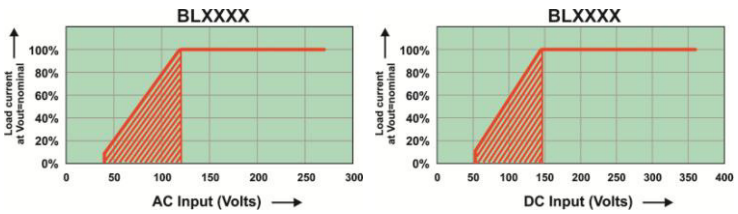


FIG.3 FIG.4