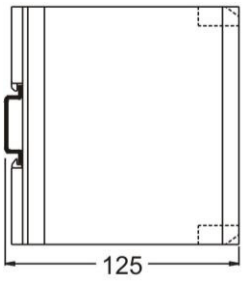
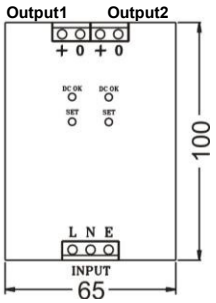
70W SMPS DUAL OUTPUT

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





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 Output1 – Output2 : Refer table
EFFICIENCY	70 ~ 75% (with input 230VAC & full load at output)
OUTPUT VOLTAGE ADJUSTMENT	+/- 10% of nominal output voltage (Refer Note 5)
OVERLOAD PROTECTION	105% ~ 130% of rated load (O/P2 is with internal thermal shutdown)
LINE & LOAD REGULATION	Better than 0.5% for both outputs
HOLD UP TIME	> 20ms at rated input voltage and load (Refer Fig.4)
OPERATING AMBIENT	0 ~ 50°C, 95% RH
STORAGE AMBIENT	-20°C to 85°C
SAFETY STANDARD	Design refers to EN60950-1 / IS13252
EMC STANDARD	Design refers to EN55022, EN55024
APPROVAL / MARK	BIS (IS13252 (PART1) : 2010 / IEC60950-1:2005)
TERMINATIONS	Screw type, for 2.5mm sq. wire
MOUNTING	35 mm DIN rail
WEIGHT	490 grams

ORDERING INFORMATION

	230VAC/DC INPUT		110VAC/DC INPUT		OUTPUT	ISOLATION O/P1-O/P2	RIPPLE & NOISE	OVER VOLTAGE PROTECTION FOR OUTPUT1
INPUT VOLTAGE	**AC**	**DC**	**AC**	**DC**				
NOMINAL INPUT	230V	230V	110V	110V				
INPUT RANGE	185 ~ 270V	200 ~ 360V	90 ~ 130V	100 ~ 160V				
INPUT FREQUENCY	47 ~ 63Hz	—	47 ~ 63Hz	—				
INPUT CURRENT (max)	1A @230V	0.35A @230V	2A @110V	0.7A @110V				
INRUSH CURRENT	32A @230V	23A @230V	16A @110V	11A @110V				
ORDER CODE	G31-70-05-05		G32-70-05-05		+5V : 5A -5V : 1.5A	NIL	< 100mV < 100mV	< 7V
	G31-70-12-12		G32-70-12-12		+12V : 4A -12V : 1.5A	NIL	< 120mV < 120mV	< 16V
	G31-70-15-15		G32-70-15-15		+15V : 3A -15V : 1.5A	NIL	< 150mV < 150mV	< 20V
	G31-70-24-24		G32-70-24-24		+24V : 1.5A - 24V : 1A	NIL	< 240mV < 240mV	< 30V
	G31-70-24-05		G32-70-24-05		+24V : 2A +5V : 1.5A	0.5KVAC, 1 minute	< 240mV < 100mV	< 30V
	G31-70-24-12		G32-70-24-12		+24V : 2A +12V : 1.5A	0.5KVAC, 1 minute	< 240mV < 120mV	< 30V
	G31-70-12-05		G32-70-12-05		+12V : 4A +5V : 1.5A	0.5KVAC, 1 minute	< 120mV < 100mV	< 16V

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.
5. To set slave output2 at +10%, master output1 should be greater than nominal output voltage (For example: G31-70-12-05, set O/P1 to 12.10V).
6. If the output voltage adjuster is turned, the voltage will increase by more than +10% of the voltage adjustment range. When adjusting the output voltage, confirm the actual output voltage from the power supply & be sure that the load is not damaged.

Derating

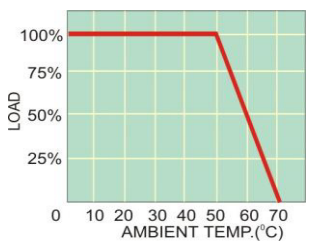


FIG.1

Output Characteristics

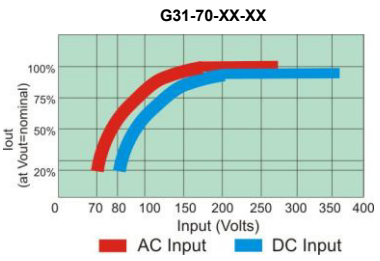


FIG.2

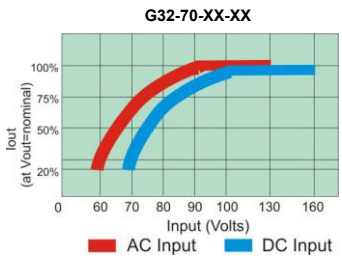


FIG.3

Brown – Out Sustainability

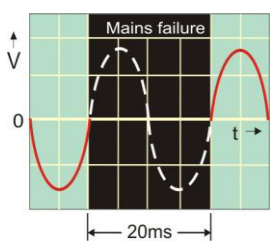


FIG.4