



Features

- Compact, Low Cost & High Reliability
- 230VAC / 110VAC Input
- 100% Full Load Burn-in Test
- PROTECTION : Shortcircuit, Overvoltage & Overload
- CE Marked on all models
- Cooling by free air convection
- 1 Year Warranty

INPUT SPECIFICATION

Voltage Range	100-120VAC; 200-240VAC
Frequency Range	47 - 63Hz
Efficiency	DR-60-12 : 82% DR-60-24 : 84%
AC Current (typ.)	1.2A / 115VAC ; 0.8A / 230VAC
Inrush Current (typ.)	18A / 115VAC ; 36A / 230VAC (for cold start at 25°C)

OUTPUT SPECIFICATION

Rated Current	DR-60-12 : 4.5A DR-60-24 : 2.5A
Rated Power	60Watts
Voltage ADJ. Range	DR-60-12 : 10.8~13.2V DR-60-24 : 21.6~26.4V
Voltage Tolerance	±1%
Ripple & Noise(max)	DR-60-12 : 120mVp-p DR-60-24 : 150mVp-p
Setup Time	100ms / 230VAC ; 200ms / 115VAC at full load
Rise Time	30ms / 230VAC ; 30ms / 115VAC at full load
Hold Time(Typ.)	100ms / 230VAC 23ms / 115VAC at full load

PROTECTION

Overload	105% to 160% rated load current Protection Type : constant current limiting recovers automatically after fault condition is removed
Overvoltage	DR-60-12 : 13.8 ~ 16.2V DR-60-24 : 27.6 ~ 32.4V Protection Type : shut down o/p voltage, re-power on to recover

ENVIRONMENT

Temperature	Working : -20°C to +60°C (derating is required according to temperature) Storage : -40°C to +85°C (with no icing or condensation)
Humidity	Working : 20% to 90% RH (non-condensing) Storage : 10% to 95% RH
Vibration Resistance	10 to 500Hz, 10min/1cycle (2G) for 60min each in X, Y, Z directions

STANDARDS

Safety Standards	Accord with UL60950-1, TUV EN60950-1, EN50178
EMC Standards	Meet the EN55022 CLASS B Equipment
Harmonic Current	Compliance to EN61000-3-2,-3
EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5; ENV50204, EN55024, Light industry level, CLASS A

SECURITY

Isolation Resistance	I/P and O/P ; I/P and FG ; O/P and FG : 100MΩ at 500VDC, 25°C, 70% RH
Dielectric Strength	Between I/P and O/P : 3kVAC for 1 min Between I/P and F.G : 1.5kVAC for 1 min Between O/P and F.G : 0.5kVAC for 1 min

OTHER SPECIFICATION

Weight	0.3kg
Dimension (L*W*H)	78*93*56 mm

ORDER CODE

MODEL	VOLTAGE	CURRENT
DR-60-12	12VDC	5.0A
DR-60-24	24VDC	2.5A

DIMENSIONS

Terminal Pin No. Assignment

Pin No.	Assignment
1,2	AC INPUT
3,4	DC OUTPUT +V
5,6	DC OUTPUT -V

Dimension

PARAMETER	VALUE
Length	78mm
Width	93mm
Height	57mm
Weight	0.3kg