

GDR15 SERIES 15W



GOODEX's step shape power family are designed with ultra-slim plastic housing and for full range AC input from 90V AC to 264V AC. The series are isolation Class II Level, achieving high efficiency and low no-load power consumption. They provide adjustable DC output voltage and operate in wide temperature range. The good performance can be used for building automation, household and industrial control systems etc.



Features



Class II Power Supply



Installation on DIN Rail TS-35/7.5 & 15



Ultra Slim Step Shape



DC Output Voltage Adjustable



Protection: Short Circuit/Overload/
Over Voltage/Over Temperature



Three Years Warranty

Model Information

GOODEX Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
GDR15-18Y05S	5V	2.4A	15W
GDR15-18Y12S	12V	1.25A	15W
GDR15-18Y15S	15V	1A	15W
GDR15-18Y24S	24V	0.63A	15W
GDR15-18Y48S	48V	0.31A	15W

Input

VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)	
FREQUENCY RANGE	47 ~ 63Hz	
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC	
AC CURRENT	0.5A/115VAC 0.25A/230VAC	
EFFICIENCY	82%	GDR15-18Y05S
	88%	GDR15-18Y12S
	89%	GDR15-18Y15S
	89%	GDR15-18Y24S
	90%	GDR15-18Y48S

Output

RIPPLE & NOISE	80mVp-p	GDR15-18Y05S
	120mVp-p	GDR15-18Y12S
	120mVp-p	GDR15-18Y15S
	150mVp-p	GDR15-18Y24S
	240mVp-p	GDR15-18Y48S
VOLTAGE ADJ. RANGE	4.5~5.5V	GDR15-18Y05S
	10.8~13.8V	GDR15-18Y12S
	13.5~18V	GDR15-18Y15S
	21.6~29V	GDR15-18Y24S
	43.2~55.2V	GDR15-18Y48S
VOLTAGE TOLERANCE	±2.0%	GDR15-18Y05S
	±1.0%	GDR15-18Y12S
	±1.0%	GDR15-18Y15S
	±1.0%	GDR15-18Y24S
	±1.0%	GDR15-18Y48S
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 1.0%	
SETUP, RISE TIME	2000ms, 80ms/230VAC	at full load
	2000ms, 80ms/115VAC	at full load
HOLD UP TIME (Typ.)	30ms/230VAC	at full load
	12ms/115VAC	at full load

Protection

OVER LOAD	110 ~ 145% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed	
OVER VOLTAGE	5.75~6.75V	GDR15-18Y05S
	14.2~16.2V	GDR15-18Y12S
	18.8~22.5V	GDR15-18Y15S
	30~36V	GDR15-18Y24S
	56.5~64.8V	GDR15-18Y48S
	Protection type: Shut down o/p voltage	

Environment

WORKING TEMP.	- 10 °C ~ +40 °C
Working Humidity	20 ~ 90% RH Non-Condensing
STORAGE TEMP., HUMIDITY	- 40 °C ~ +85 °C , 10 ~ 95% RH non-condensing
TEMP. COEFFICIENT	± 0.03%/ °C (0 ~ 50 °C) RH non-condensing
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
OPERATING ALTITUDE	2000 meters
OVER VOLTAGE CATEGORY	III ;According to EN61558, EN50178,EN60664-1, EN62477-1; altitude up to 2000 meters

SAFETY & EMC

SAFETY REGULATIONS	EN62368-1
WITHSTAND VOLTAGE	I/P-O/P:3KVAC
INSULATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25 °C / 70% RH
EMC EMISSION	EN55032
EMC IMMUNITY	EN55032

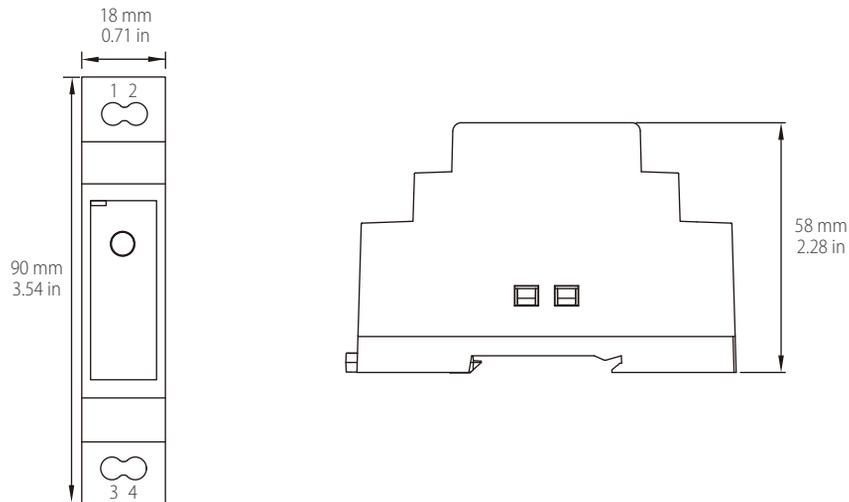
Dimensions & Weight

Length:	18mm / 0.71in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	78g

Packing

Carton Size:	33.5 x 25.5 x 21 CM 13.19 x 10.04 x 8.27 in
Master Carton Quantities:	100pcs / Carton

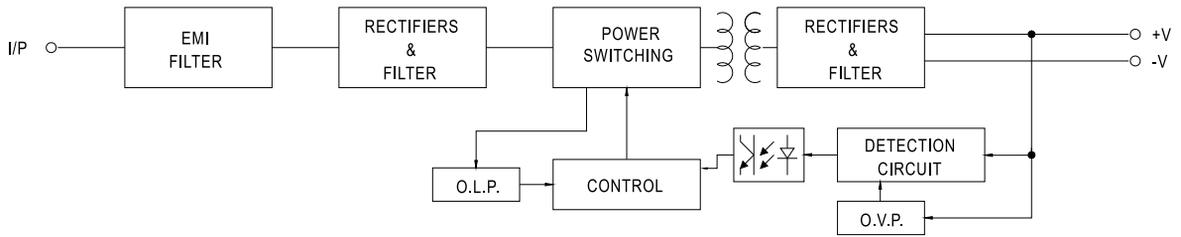
Dimensions and Installation



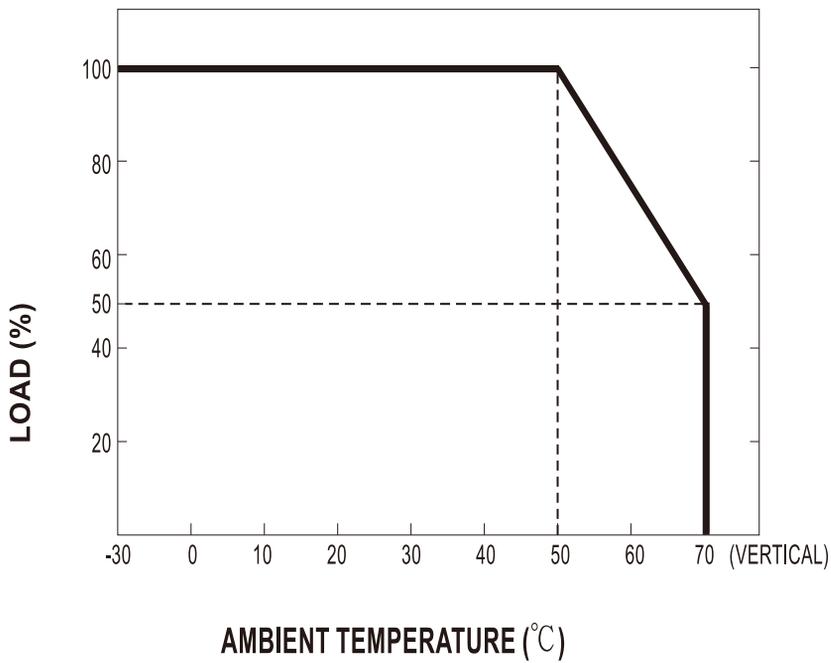
Input	
No.	Description
1	+V
2	-V

Output	
No.	Description
3	AC/N
4	AC/L

Functional Diagram



Deduction Curve And Temperature



Minus Output And Input Voltage Curves

