

# FDR 180-24

Series name

Total output wattage

Output voltage combination

## Features:

- 180 Watt
- Low cost
- Compact size
- Universal AC input full range
- Compatible with DIN rail TS-35 / 7.5 or 15
- PFC as standard (180W, 240W)
- Over voltage protection
- Over current protection
- LED indicator for DC power ON
- LED indicator for DC low
- 3 year warranty



## FDR180-S Specifications



	MODEL	FDR180-24	FDR180-48	
INPUT	VOLTAGE, FREQUENCY	AC100-240V (AC 90~264V OR DC 127~370V) 50/60Hz (47~63Hz), universal input		
	CURRENT [A]	110V	2.0 (I <sub>0</sub> =100%)	
		220V	1.0 (I <sub>0</sub> =100%)	
	EFFICIENCY [%]	110V	88 typ	90 typ
		220V	90 typ	92 typ
	POWER FACTOR	110V	0.98 typ	
220V		0.93 typ		
INRUSH CURRENT		20A typ (AC IN 110V, I <sub>0</sub> =100%) at cold start		
OUTPUT	VOLTAGE [V]	24	48	
	CURRENT [A]	7.5	3.8	
	VOLTAGE ADJUSTMENT RANGE [V]	22.5 ~ 28.5	45 ~ 55	
	RATED POWER [W]	240	240	
	REGULATION, LINE [mV]	120	240	
	REGULATION, LOAD [mV]	240	480	
	RIPPLE, NOISE MAX [mV]	100	120	
	TEMPERATURE DRIFT [mV]	360	720	
	RISE TIME [ms]	3600 Max (AC IN 110V I <sub>0</sub> =100%)		
HOLDING TIME [ms]	20 typ (AC IN 110V I <sub>0</sub> =100%)			
FUNCTION	OVER CURRENT PROTECTION [A]	Works at over 110 ~ 150% of rating, current limiting, current limited with auto-recovery		
	OVER VOLTAGE PROTECTION [V]	30 ~ 35	60 ~ 65	
	DC_OK LAMP	LED (GREEN)		
	DC_LOW LAMP	LED (RED)		
	PARALLEL / SERIES OPERATION	Series operations is possible		
ELECTRICALLY ISOLATED	COOLING / O.T.P	Convention cooling		
	INPUT-OUTPUT	AC 3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & humidity)		
	INPUT-CASE, FG	AC 2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & humidity)		
ENVIRONMENT	OUTPUT-CASE,FG	AC 500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & humidity)		
	OPERATING TEMP AND HUMID	-25 ~ +70°C (Required Derating), 20 ~ 90% RH (Non Condensing)		
	STORAGE TEMP AND HUMID	-40 ~ +85°C, 20 ~ 90% RH (Non Condensing)		
SAFETY	VIBRATION	10 ~ 55Hz at 2G, 1 minute period, 1 hour long, X, Y and Z axis		
	SAFETY REGULATION	UL, C-UL, CE, CB	UL, C-UL, CE, CB	

EMISSION	CONDUCTED EMISSION	Complied with EN55011 / EN55022-B, FCC-B
PFHC	HARMONIC CURRENT	Complied with EN61000-3-2 (Class A)

### FDR180-S External View

