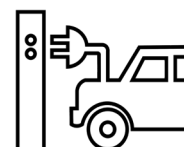
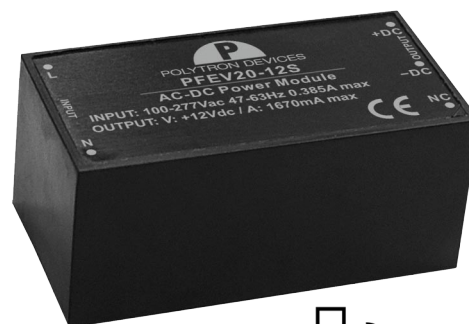


AC-DC POWER SUPPLY

UP TO 20 WATTS

EV CHARGING APPLICATIONS
PFEV20 SERIES



FEATURES

- Universal Input Range 90-305VAC, 47-63 Hz
- I/O Isolation 4300VAC
- Operating Ambient Temperature Range: -40°C to +85°C
- No Load Power Consumption < 0.1W
- 5000m Altitude Application
- Over-Voltage Category OVC III (New Edition)
- High Efficiency up to 87%
- Isolation Class II
- EMC Compliant without External Components
- UL / IEC / EN 62368-1
- Design meet IEC / EN 61558-1, IEC / EN 61558-2-16, IEC / EN 60335-1

SELECTION GUIDE Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified.

Input Voltage Range Vac / Vdc	Output Voltage V	Output Current at Full Load A	Maximum Output Wattage W	Efficiency %	Model Number	Max. Capacitor Load µF
90-305 / 120-430	5	4,000	20	85	PFEV20-5S	10,000
90-305 / 120-430	12	1,670	20	86	PFEV20-12S	1,500
90-305 / 120-430	15	1,330	20	87	PFEV20-15S	1,000
90-305 / 120-430	24	833	20	87	PFEV20-24S	470
90-305 / 120-430	Output 1: 5 Output 2: 12	Output 1: 2,000 Output 2: 700	18.4	81	PFEV20-5S12S	Output 1: 5,000 Output 2: 750
90-305 / 120-430	Output 1: 12 Output 2: -12	833	20	85	PFEV20-12D	±1,000
90-305 / 120-430	Output 1: 15 Output 2: -15	666	20	85	PFEV20-15D	±470

PFEV20 SERIES

Input Specifications			Output Specifications		
Rated input voltage, Vac/Vdc	90-305 / 120-430		Voltage accuracy, %	±2	PFEV20-5S, PFEV20-12S, PFEV20-15S, PFEV20-24S
Input frequency, Hz	47-63			±5	PFEV20-5S12S Output 1, PFEV20-12D, PFEV20-15D
				±6	PFEV20-5S12S Output 2,
Input current, mA	385 Max.	115 Vac	Minimum load, %	0	PFEV20-5S, PFEV20-12S, PFEV20-15S, PFEV20-24S
	250 Max.	230 Vac		25	PFEV20-5S12S, PFEV20-12D, PFEV20-15D
Inrush current, A	30 Max.	115 Vac	Line regulation, %	Low Line to High Line	
	60 Max.	230 Vac		±0.5 Typ.	PFEV20-5S, PFEV20-12S, PFEV20-15S, PFEV20-24S
Load regulation, %					
	±1 Typ.	PFEV20-5S, PFEV20-12S, PFEV20-15S, PFEV20-24S			
	±2 Typ., 25-100%, Symmetric Load	PFEV20-5S12S Output 1			
	±4 Typ., 25-100%, Symmetric Load	PFEV20-5S12S Output 2			
No load power consumption, W	< 0.1	115/230 Vac	Ripple & noise, mV (Vp-p)	Full Load	
				120	PFEV20-5S, PFEV20-12S, PFEV20-15S, PFEV20-24S
External fuse	2 A slow blow type	Mandatory	Hold-up time, ms	150	PFEV20-5S12S, PFEV20-12D, PFEV20-15D
				6 Typ.	115 Vac
				6 Typ.	230 Vac

General Specifications					
Short circuit protection,	Hiccup mode (automatic recovery)				
Over voltage protection	Zener diode clamp				
Over power protection	Hiccup technique, auto-recovery				
Isolation	Input-Output (V.AC)		4300V		

PFEV20 SERIES

Characteristic Curve

