

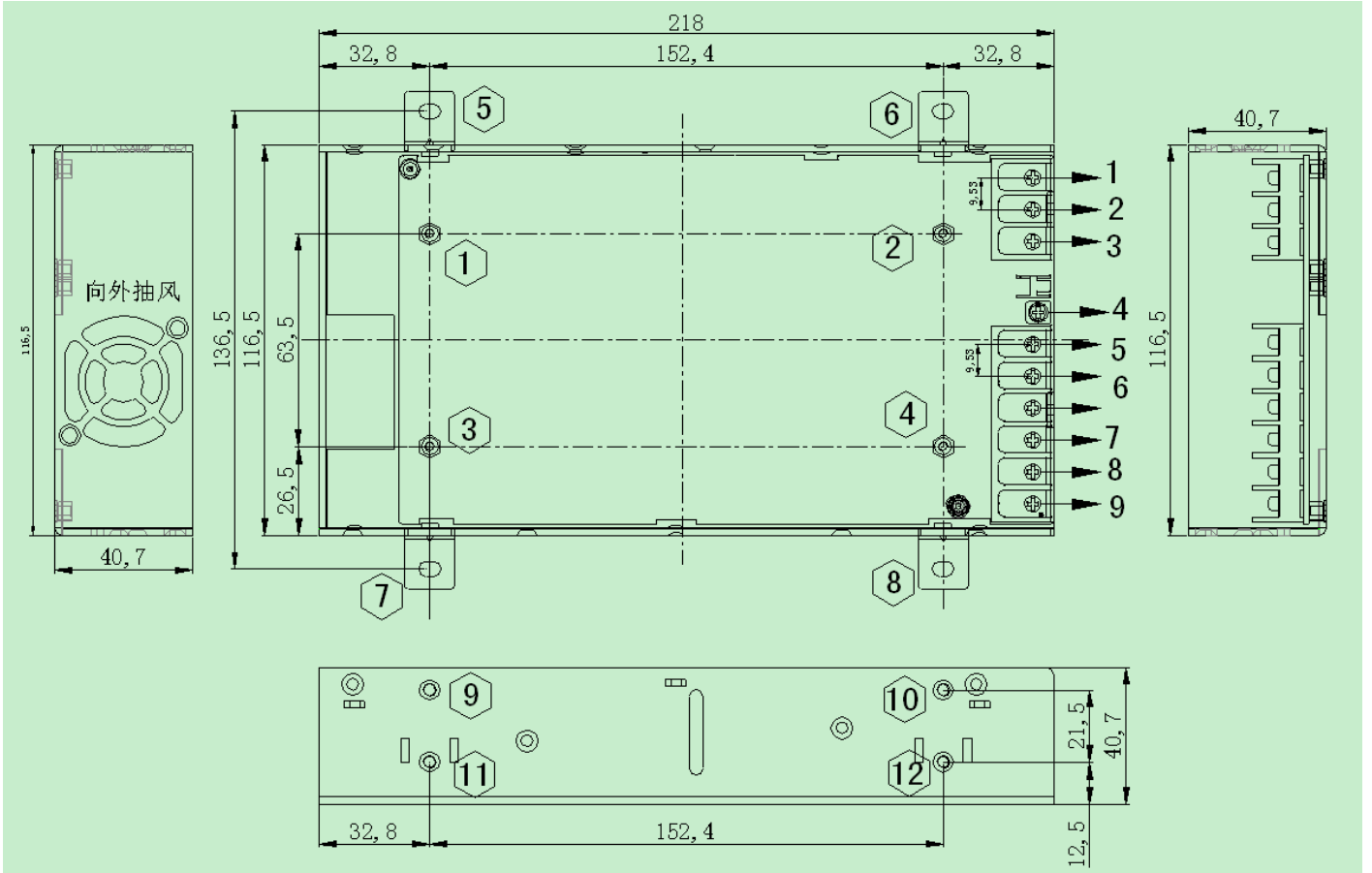
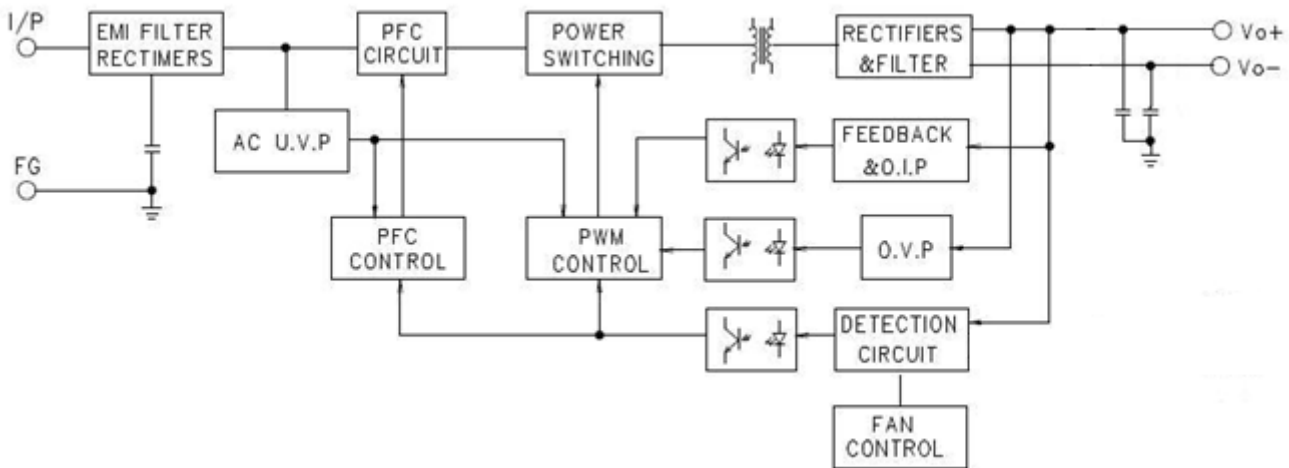

**Features:**

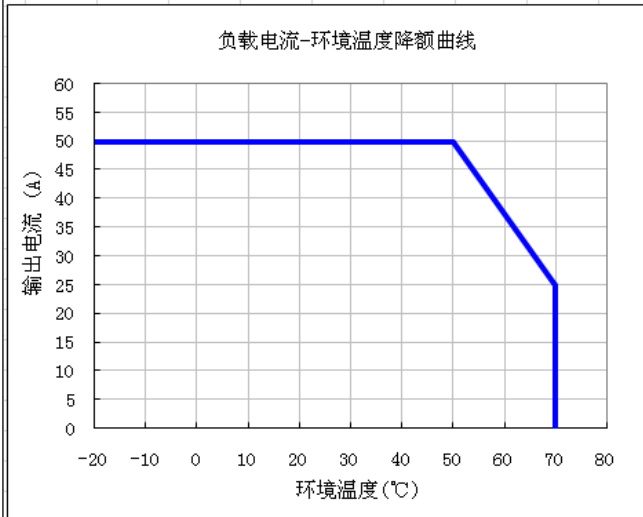
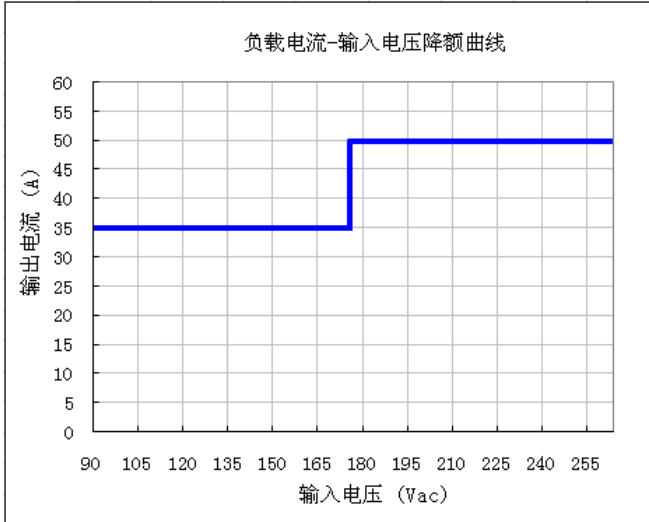
- Universal AC input(90~264Vac)
- Built-in active PFC function, PF>0.95
- High efficiency, long life and high reliability
- High efficiency up to 93.8%
- Output protection: OLP/OVP/OTP/SCP
- Wide operating ambient temperature (-20℃~70℃)
- Altitude up to 5000m
- PCB soldering side with conformal coating
- 1 U low profile,40.7mm
- 3 years warranty

**SPECIFICATION**

MODEL		PDF-600-C12	PDF-600-C24	PDF-600-C48	
OUTPUT	DC Output	12V	24V	48V	
	Rated Current (90~175Vac)	35A	20A	10A	
	Rated Current (176~264Vac)	50A	25A	12.5A	
	Ripple and Noise	0-70℃	≤120mV	≤150mV	≤480mV
		Note 2 -20-0℃	≤240mV	≤240mV	≤480mV
	Voltage ADJ. Range	11.8~13.2V	23.4~26.4V	47.5~52.8V	
	Voltage Accuracy	±3%	±2%		
	Line Regulation	±1%	±0.5%		
	Load Regulation	±2%	±1.0%		
	Set-up Time	≤2S (220Vac input, Full load)	≤2.5S/110Vac	≤1.5S/220Vac , full load	
	Hold up Time	≥10mS /(220Vac input, Full load)			
	Temperature Coefficient	±0.03%/℃			
Overshoot and Undershoot	<5.0%				
INPUT	Voltage Range	90Vac~264Vac			
	Frequency Range	47Hz~63Hz			
	Power Factor(Typical)	PF>0.95/220Vac, full load	>0.98/110Vac	>0.95/220Vac full load	
	Efficiency ( Typical ) @220Vac	90%	91.8%	93.8%	
	AC Current (max.)	<5A	<6A		
	Inrush Current (Typical)	<40A@220Vac Cold start	<15A/110Vac	<30A/220Vac cold start	
	Leakage Current	Input—output: ≤0.25mA Input—PG: ≤3.5mA (264Vac, 63Hz)			
	Standby power consumption	<5W			
PROTECTION	Over Load	52.5~65A	26.25~32.5A		
		Protection type: 12V: Intermittent working, working time>0.1s, recovery time >2s 24V / 48V: Hiccup mode, auto recovery			
	Over Voltage	13.6~16V,	28~32V	54~60V	
		Protection type: Constant voltage, auto recovery			
	Over Temperature	95℃±5℃(detect on thermal protector on PFC mosfet);shut down,auto recovery after the temperature goes down to 40℃			
Short Circuit	Long-term mode, constant current, auto recovery				
ENVIRONMENT	Operating amb. Temp. & Hum.	-20℃~70℃; 20%~90%RH No condensing (refer to derating curve)			
	Storage Temp. & Hum.	-40℃~85℃; 10%~95%RH No condensing			
SAFETY & EMC (Note 3)	Safety Standards	UL60950-1 2nd Ed; IEC 60950-1:2005(2nd Ed) ;EN60950-1:2006			
	Withstand Voltage	Primary-Secondary:3.0KVac/10mA .Primary-PG:1.5KVac/10mA. Secondary-PG:0.5KVdc/10mA.			
	Isolation Resistance	10M ohms			
	EMI Conduction & Radiation	Compliance to EN55022, FCC PART 15 CLASS B			
	Harmonic Current	Compliance to EN61000-3-2, class D			
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level			
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25℃, Full load)			
	Dimension (L*W*H)	218*116.5*40.7mm			
	Packing	6PCS/CTN, 8.0KGS, 0.04CBM			

	Cooling method	<p>12V:</p> <p>Fan working: temperature controller up to <math>55\pm 10^{\circ}\text{C}</math> or Output Current <math>&gt;17\text{-}22\text{A}</math></p> <p>Fan stop working: temperature controller down to <math>40\pm 10^{\circ}\text{C}</math> or Output Current <math>&lt;15\text{-}20\text{A}</math></p> <p>24V /48V:</p> <p>Fan working: temperature controller up to <math>55\pm 10^{\circ}\text{C}</math> or Output Current <math>&gt; 40\%\sim 60\%</math> of rated current</p> <p>Fan stop working: temperature controller down to <math>40\pm 10^{\circ}\text{C}</math> or Output Current <math>&lt;30\%\sim 50\%</math> of rated current</p>
NOTE	<p>1. All parameters NOT specially mentioned are measured at rated input, rated load and <math>25^{\circ}\text{C}</math> of ambient temperature.</p> <p>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF &amp; 47uF parallel capacitor.</p> <p>3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on <a href="http://www.powerld.com.cn">http://www.powerld.com.cn</a>.</p>	

**■ Mechanical Specification** Unit:mm

**■ Block Diagram**


**Derating Curve**
**PDF-600-C12**

**PDF-600-C24/48**
