

Product Features

- Input voltage range 176~264Vac;
- High efficiency, low temperature rise, high reliability;
- Built-in EMI filter, lower ripple & low noise;
- Protections: over current protection, over load protection, short circuit protection.



1. Electric Characteristic

①	Input			
No.	Item	Technical Requirements	Unit	Note
1.1	Rated Input Voltage	200~240	Vac	
1.2	Input Voltage Range	176~264	Vac	Refer to derating curve
1.3	Rated Frequency	50/60	Hz	
1.4	Frequency Range	47~63	Hz	
1.5	Max. Input Current	1.2	A	Vin=190Vac, rated load
1.6	Inrush Current	≤50	A	240Vac input, 25°C, cold start
②	Output			
No.	Item	Technical Requirements	Unit	Note
2.1	Rated output voltage	12	Vdc	
2.2	Rated output current	8.3	A	
2.3	Max Output power	99.6	W	Refer to derating curve
2.4	Efficiency	≥86%	-	25°C, 230Vac input, rated load
2.5	Line regulation	±1%		
2.6	Load regulation	±2%		
2.7	Voltage tolerance	±2%		
2.8	Ripple & Noise	≤300	mVp-p	25°C, rated input, rated load, bandwidth of 20MHz, connected a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel to the output terminals.
2.9	Dynamic Response Overshoot	≤5	%	5%~50%~25%, 50%~75%~50 load dynamics, half-wave period is 4mS, current change slope is 0.1A/uS
2.10	Dynamic Response Recovery Time	200	us	
2.11	Turn-on Delay Time	≤3	s	200~240Vac input, rated load
2.12	Output Voltage Rise Time	≤70	ms	200~240Vac input, rated load, 25°C
2.13	Turn-on/off Overshoot	≤±10%		
③	Protection			
No.	Item	Technical Requirements	Unit	Note
3.1	Over Current Protection	9.5~12	A	Hiccup model, recovers automatically after fault condition is removed
3.2	Short Circuit Protection	Long time short-circuit protection without damage, recovers automatically after fault condition is removed.		

2. Environment

No.	Item	Specs	Unit	Note
1	Working temperature range	-25~ +70(Typ. 25)	°C	Refer to derating curving
2	Max case temperature	90	°C	Tc
3	Storage temperature range	-40~ +80(Typ. 25)	°C	
4	Relative humidity	20~95	%	No condensing
5	Altitude	0~5000	m	
6	Protection Rating	IP67		The power supply shall not be immersed in water for more than 0.5 hours (less than 1 meter in depth); It shall not be buried underground for use.
7	Cooling method	Ventilation cooling		

3. Reliability Requirement

MTBF≥100Khours.

Test condition: 25°C, rated input, rated load, MIL-HDBK-217F Notice 2

4. Safety standards

No.	Item		Testing Condition	Note
4.1.	Dielectric Strength (Hi-Pot)	I/P-O/P	3750Vac, 60S, current≤10mA	No arcing,no breakdown
		I/P-FG	1750Vac, 60S, current≤10mA	
		O/P-FG	500Vac, 60S, current≤10mA	
4.2	Insulation Resistance	I/P-O/P	≥10MΩ@ 500Vdc	90% RH, 1 atm
		I/P-FG	≥10MΩ@ 500Vdc	
		O/P-FG	≥10MΩ@ 500Vdc	
4.3	Leakage Current		< 0.75mA	240Vac/60Hz
4.4	Safety Standard		GB19510.1,.14/EN61347-1,-2-13/EN62384/UL8750/IP67	
4.5	Electromagnetic Interference		EN61547; EN61000-4-2,3,4,5,6,8,11; (surge immunity Line-Earth 4KV, Line-Line 2KV)	

5. Mechanic Specification

5.1 Terminals (Unit: mm)

No.	Item	Parameters/mm	Note
5.1.1	Overall Dimension	166(L)*51 (W)*28.5(H)	
5.1.2	Three core input cable	Length:300mm	Brown(L) Blue(N) Yellow-Green (G)
5.1.3	Two-core output cable	Length:200mm	Brown(V+) Blue(V-)

