



DNICS INC. 150Watts Single Output with active PFC



Features:

- Universal AC input range
- ➤ Built-in Active PFC function, PF>0.95
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 secs.
- Output protections: OLP/OVP/SCP/OTP/OPP
- ➤ Wide operating ambient temp (-20°C~70°C)
- ➤ All using 105°C long life electrolytic capacitors.
- > 100% full load burn-in test
- Easy assembling from top side
- PCB soldering side with conformal coating
- > Suitable for critical applications
- > 3 years warranty

SPECIFICATION

MODEL		MFGKF-150-12	MFGKF-150-15	MFGKF-150-24	MFGKF-150-48	
OUTPUT	DC Output		12V	15V	24V	48V
	Rated Current		12.5A	10A	6.3A	3.2A
	Current Range Note 1		0~12.5A	0~10A	0~6.3A	0~3.2A
	Dipple and Noice Note 2	0~70℃	≤100mV	≤100mV	≤100mV	≤100mV
	Ripple and Noise Note 2	-20~0℃	≤200mV	≤200mV	≤200mV	≤200mV
	Voltage ADJ. Range		10.8~13.2V	13.5~16.5V	21.6~26.4V	43.2~52.8V
	Voltage Accuracy		±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation		±2.0%	±2.0%	±1.0%	±1.0%
	Set-up Time		≤3S /115Vac, ≤2S /230Vac			
	Hold up Time		≥10mS (220Vac input, Full load)			
	Temperature Coefficient		±0.03%/°C			
	Overshoot and Undershoot		<5.0%			
INPUT	Voltage Range		90Vac~264Vac			
	Frequency Range		47Hz~63Hz			
	Power factor (typical)		PF>0.98@115Vac, PF>0.95@230Vac			
	Efficiency (Typical) 230Vac input		≥86%	≥87%	≥87%	≥88%
	AC Current (max.)		<2 A			
	Inrush Current (Typical)		<30A/115Vac,<45A/230Vac Cold start			
	Leakage Current		Input—output: ≤0.25mA Input—PG: ≤3.5mA			
PROTECTION	Over Load		105%~150% of rated output current, hiccup mode, auto recovery			
	Over power		105%~150% of rated output current, hiccup mode, auto recovery			
	Over Voltage		115%~150% of rated output voltage, hiccup mode, auto recovery			
	Over Temperature		105℃±5℃ (detect on Mosfet temperature);shut down, auto recovery after the temperature goes down to 60℃			
	Short Circuit		Long-term mode, auto recovery			
ENVIRONMENT	Operating amb. Temp. & Hum.		-20°C ~70°C; 20%~90%RH No condensing (refer to the derating curve)			
	Storage Temp. & Hum.		-30°C~85°C; 10%~95%RH No condensing			
	Safety Standards		UL60950-1 2 nd Ed; IEC 60950-1:2005(2 nd Ed) ;EN60950-1:2006			
	Withstand Voltage		Primary-Secondary:3.0KVac; ≤10mA.Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVDC;≤10mA.			
SAFETY &EMC	Isolation Resistance		100M ohms			
Note 3	EMS Emission		Compliance to EN55022 Class B			
	Harmonic Current		Compliance to EN61000-3-2, Class D			
	EMC 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)		160×98.3×38mm			
	Packing		20PCS/CTN, 14KGS, 0.04CBM			
	Cooling method		Cooling by free air convection			
NOTE	 All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives. 					

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