

UNOPT 75W Series

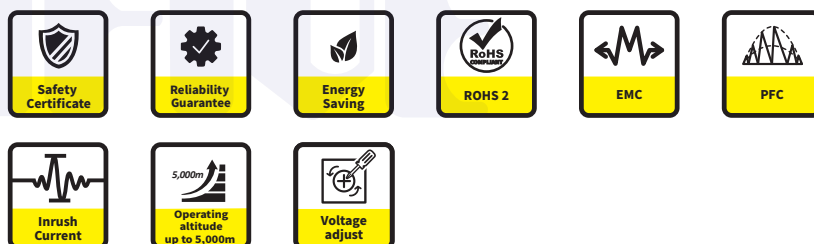
Industrial Power Supply
Standard Product
Compact 2" × 5.9"



▲ UNOPT3075 Series

CE UK CA FC

■ Please contact our sales department for safety standard of each model.



Model Name Definition

UNOPT 3075 - _____

① ② ③ ④ ⑤

- ① Developed by UNIFIVE
- ② Series Code
- ③ Input Voltage (V)
- ④ Output Power (W)
- ⑤ Function Description
(multiple digits)

Product Highlights

- Stability
- Energy and High Efficiency
- PCB Size 2"x 5.9"(inch)
- Appendix 8 of PSE :
comply with dusty requirement
- SEMI F47
Valid if VAC.input > 200V
- 5 years warranty
- Correspond to OVC III (2000m)
- Operating altitude Up to 5,000m
- Suitable for industrial equipment

Protection

- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection
- Over Temperature Protection (optional)

Safety Standard

- 62368-1
- PSE 別表第八
100V-240V 基準に準拠

Efficiency

- Energy Efficiency Level VI (ErP / DoE)
- Meet Commission Regulation(EU)
2019/1782
- Meet DOE 10 CFR part 429 and 430

Emissions

- FCC
 - FCC Part15-B
- CE
 - EN(CISPR)55032-B
- BS EN 55032

Immunity

- EN55035
- BS EN 55035

The above specifications include the following test standards

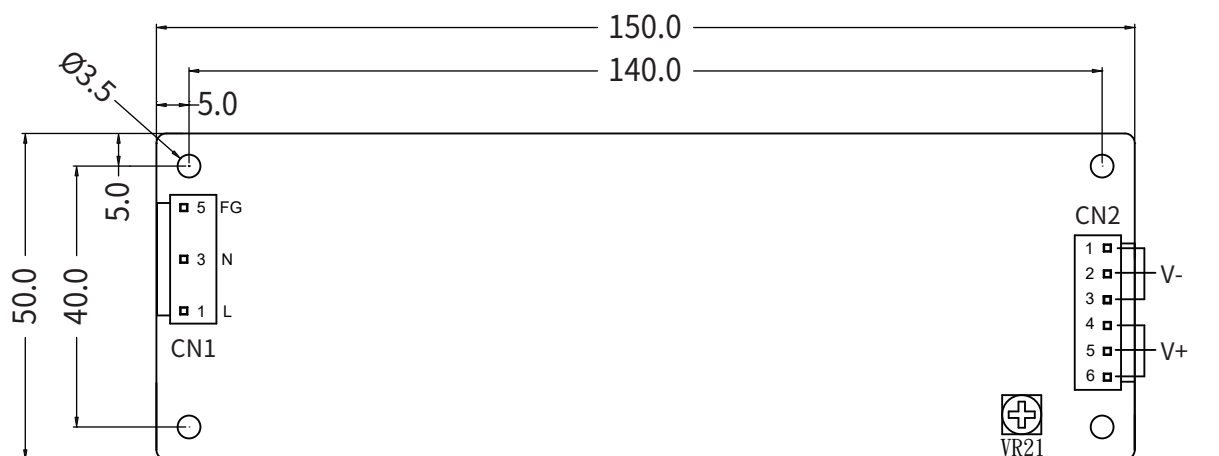
- ✓ EN61000-4-2
- ✓ EN61000-4-3
- ✓ EN61000-4-4
- ✓ EN61000-4-5
- ✓ EN61000-4-6
- ✓ EN61000-4-8
- ✓ EN61000-4-11

more detail on next page

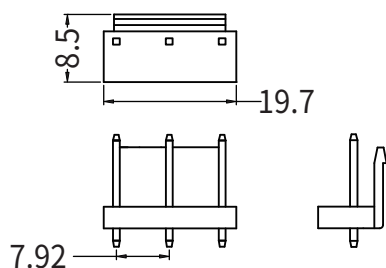
UNOPT 75W Series							
Model		UNOPT3075-120063SA		UNOPT3075-150050SA	UNOPT3075-240032SA	UNOPT3075-480016SA	
Output		Output 1					
Output Wattage Max (W)		75.6	75	76.8	76.8		
DC Output		12.0V/6.3A	15.0V/5.0A	24.0V/3.2A	48.0V/1.6A		
Specification							
Input	Voltage (VAC)		85~265 1φ				
	Current (A)	ACIN 100V	0.9A Typical				
		ACIN 230V	0.4A Typical				
	Frequency (Hz)		50/60 (47-63)				
	Efficiency (%)	ACIN 100V	88.0 Typical	88.0 Typical	88.0 Typical	88.0 Typical	
		ACIN 230V	88.0 Typical	88.0 Typical	89.0 Typical	89.0 Typical	
	Power Factor (%)	ACIN 100V	0.99 Typical				
		ACIN 230V	0.93 Typical				
	Inrush Current (A)	ACIN 100V	14.0A/28.0A Typical (Full Load, cold start, Ta=25°C)/Restart After More than 3sec.				
ACIN 230V		28.0A/28.0A Typical (Full Load, cold start, Ta=25°C)/Restart After More than 3sec.					
Leakage Current (mA _{max})		0.5mA r.m.s or 0.707mA peak(ES1) (ACIN 100V/240V 60Hz, I _o =100%, According to IEC62368 Class I)					
		0.5mA r.m.s or 0.707mA peak(ES1) (ACIN 100V/240V 60Hz, I _o =100%, According to IEC62368 Class II)					
Output	Voltage (V)		12.0	15.0	24.0	48.0	
	Current (A)		6.3	5.0	3.2	1.6	
	Line Regulation (mV _{max})		48	60	96	192	
	Load Regulation (mV _{max})		96	120	150	240	
	Ripple (mV _{p-p}) (0°C to +50°C) ※1		150	150	150	200	
	Ripple (mV _{p-p}) (-10°C to 0°C) ※1		180	180	180	240	
	Noise (mV _{p-p}) (0°C to +50°C) ※1		150	150	150	200	
	Noise (mV _{p-p}) (-10°C to 0°C) ※1		180	180	180	240	
	Temperature Regulation (mV _{max})	0 to +50°C	100	100	100	200	
		-10 to +50°C	100	100	150	240	
	Drift (mV _{max}) ※2		100	100	100	200	
	Start-Up Time (mS)		600 Typical (ACIN 100V, Full Load), at 25°C				
	Hold-Up Time (mS)		22 Typical (ACIN 100V, Full Load), at 25°C				
	Output Voltage Setting (V)		11.4 to 12.6	14.25 to 15.25	22.8 to 25.2	45.6 to 50.4	
	Output Voltage Variable Range (V)		10.8 to 13.2	13.5 to 16.5	21.6 to 26.4	39.5 to 52.8	
	Over Current Protection		Over 105% of Peak Current ; Auto-Recovery				
	Over Voltage Protection (V) (Latch Off)		13.8 to 16.2	17.3 to 20.3	27.6 to 32.4	55.2 to 64.8	
	Short Protection		Auto-Recovery				
	Isolation	Input-Output・other connect		AC2,829V 1 minute, Cutoff Current = 10mA (at 25°C)			
		Input-FG		AC1,768V 1 minute, Cutoff Current = 10mA (at 25°C)			
Output-FG		DC500V 1 minute, Cutoff Current = 25mA (at 25°C)					
Operating Temperature/Humidity/Altitude		-10°C~70°C / 20%RH~90%RH / 5000m max / Non condensing					
Storage Temperature/Humidity		-30°C~75°C / 20%RH~90%RH / Non condensing					
Vibration		10 - 55Hz, 19.6m/s ² (2G), 3 minutes period, 60 minutes each along X, Y and Z axis					
Impact		JIS-C-0041 half sin wave, 300 m/s ² , 6ms, 3 times each X, Y, and Z axis (196.1m/s ² (20G), 11ms, Once Each X, Y and Z Axis)					
Safety		IEC/EN62368-1, BS EN 62368-1					
EMC		FCC Part15-B, EN(CISPR)55032-B, BS EN 55032					
Harmonic Attenuator		Complies with IEC61000-3-2					
Size		150(L)×50(W)×34(H)mm					
Cooling Method		Convection / Forced Air					
※1 Parallel a 22uF Low ESR Aluminum Electrolytic Capacitor and 0.1uF ceramics capacitor at the test point. The position of test point is 150mm from output terminal to system load. The bandwidth of oscilloscope is 20MHz. (Please refer to User Manual)							
※2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25C, with the input voltage held constant at the rated input / output.							
※ When the specification is exceeded, it may cause a possibility that the components be damaged.							
※ Sound noise may be generated by power supply in case of pulse load.							
※ When the output load is less than 10% of the rated current, the corresponding actions reduce energy loss, output ripples may occur in the pulse waves.							
※ If you have question, please contact us.							

Mechanical Spec

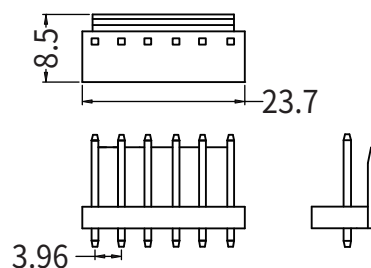
TOLERANCE: ± 0.5
Unit: mm



CN1



CN2



CN1

PIN NUMBER	INPUT
1	AC(L)
2	
3	AC(N)
4	
5	FG
CN1 : INPUT CONNECT Specifications are equivalent to models of JST B5P-VH	

CN2

PIN NUMBER	OUTPUT
1,2,3	V-
4,5,6	V+
CN2 : OUTPUT CONNECT Specifications are equivalent to models of JST B6P-VH	

■ Please contact our sales department for details of each model ■