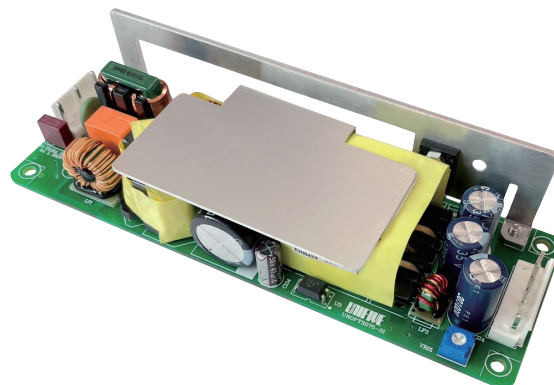


UNOPT 75W Series

Industrial Power Supply

Standard Product

Compact 2" × 5.9"



▲ UNOPT3075 Series



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



Safety Certificate



Reliability Guarantee



Energy Saving



ROHS 2



EMC



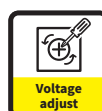
PFC



Inrush Current



Operating altitude up to 5,000m



Voltage adjust

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

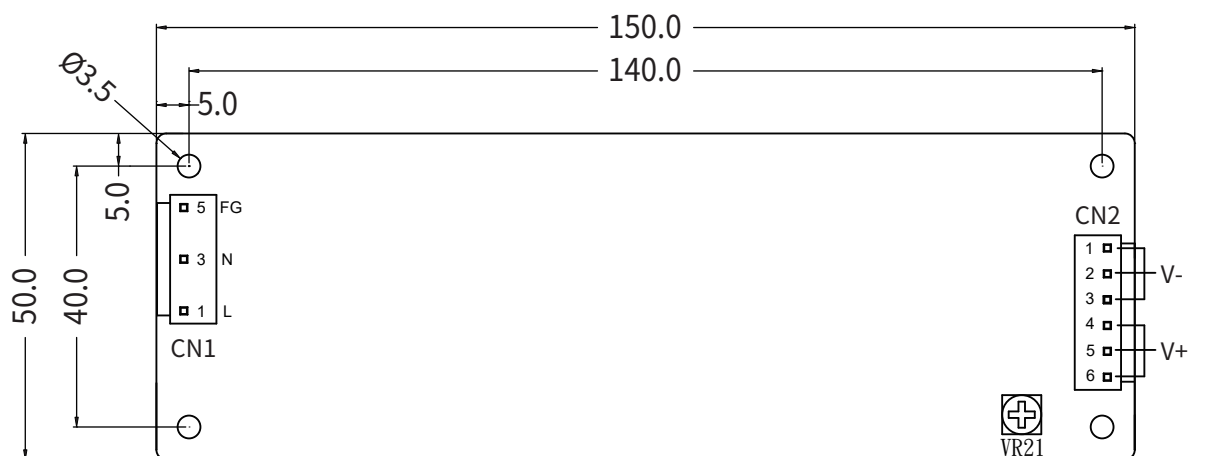
- ✓ EN61000-4-2
- ✓ EN61000-4-3
- ✓ EN61000-4-4
- ✓ EN61000-4-5
- ✓ EN61000-4-6
- ✓ EN61000-4-8
- ✓ EN61000-4-11

more detail on next page

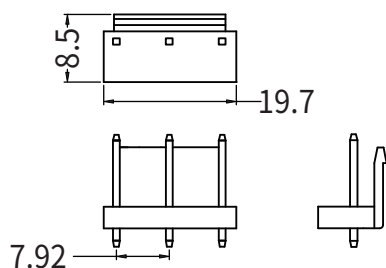
UNOPT 75W Series									
Model		UNOPT3075-033015SA	UNOPT3075-050015SA	UNOPT3075-120063SA	UNOPT3075-150050SA	UNOPT3075-240032SA	UNOPT3075-480016SA		
Output		Output 1							
Output Wattage Max (W)		49.5	75	75.6	75	76.8	76.8		
DC Output		3.3V/15.0A	5.0V/15.0A	12.0V/6.3A	15.0V/5.0A	24.0V/3.2A	48.0V/1.6A		
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	76.0 Typical	80.0 Typical	88.0 Typical	88.0 Typical	88.0 Typical	88.0 Typical	
		ACIN 230V	78.0 Typical	82.0 Typical	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)							
Output	Voltage (V)		3.3	5.0	12.0	15.0	24.0	48.0	
	Current (A)		15.0	15.0	6.3	5.0	3.2	1.6	
	Line Regulation (mV _{max})		20	20	48	60	96	192	
	Load Regulation (mV _{max})		40	40	96	120	150	240	
	Ripple (mV _{p-p}) (0°C to +50°C) ※1		120	120	150	150	150	200	
	Ripple (mV _{p-p}) (-10°C to 0°C) ※1		160	160	180	180	180	240	
	Noise (mV _{p-p}) (0°C to +50°C) ※1		120	120	150	150	150	200	
	Noise (mV _{p-p}) (-10°C to 0°C) ※1		160	160	180	180	180	240	
	Temperature Regulation (mV _{max})	0 to +50°C	100	100	100	100	100	200	
		-10 to +50°C	100	100	100	100	150	240	
	Drift (mV _{max}) ※2		100	100	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)		3.03 to 3.46	4.75 to 5.25	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)		2.97 to 3.63	4.5 to 5.5	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)		3.79 to 4.95	5.7 to 7.0	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

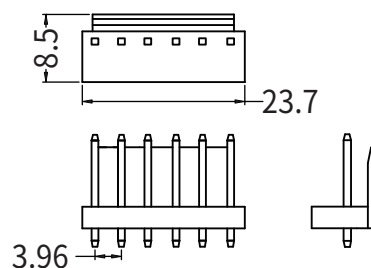
TOLERANCE: ± 0.5
Unit: mm



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 ■