





- · Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- 1.8"x2.5" compact size
- No load power consumption<0.3W
- · Operating altitude up to 3000 meters
- · 3 years warranty



GTIN CODE

SPECIFICATION

MW Search: https://www.meanwell.com/serviceGTIN.aspx









MODEL EPS-15-12 EPS-15-36 EPS-15-3.3 EPS-15-5 EPS-15-7.5 EPS-15-15 EPS-15-24 EPS-15-27 EPS-15-48 DC VOLTAGE 3.3V 7.5V 12V 15V 24V 27V 36V 48V RATED CURRENT 3A 3A 2A 1.25A 1A 0.625A 0.56A 0.42A 0.313A **CURRENT RANGE** 0~33A 0~33A 0 ~ 2.2A $0 \sim 1.38A$ 0 ~ 1 1A $0 \sim 0.69A$ $0 \sim 0.615A$ 0~0.46A 0~0.344A RATED POWER 9 9W 15W 15W 15 12W 15 12W 15.02W PEAK LOAD(10sec.) 10.89W 16.5W 16.5W 16 56W 16.5W 16 56W 16 6W 16.56W 16.51W Note.6 RIPPLE & NOISE (max.) Note.2 50mVp-p 50mVp-p 80mVp-p 80mVp-p 100mVp-p 150mVp-p 180mVp-p 200mVp-p 200mVp-p OUTPUT VOLTAGE ADJ. RANGE 4.75 ~ 5.5V 7.13 ~ 8.25V 10.8 ~ 13.5V 13.5 ~ 16.5V 21.6 ~ 27V 24.3 ~ 29.7V 32.4 ~ 39.6V 43.2 ~ 52.8V $3.1 \sim 3.6 V$ VOLTAGE TOLERANCE Note.3 ±2.0% ±2.0% +1 0% ±1.0% +1 0% +1 0% +1 0% ±1.0% +2 0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% +0.5% +0.5% ±0.5% ±0.5% LOAD REGULATION ±1.0% ±1.0% ±0.5% ±0.5% +0.5% +0.5% ±0.5% ±0.5% +1 0% SETUP. RISE TIME 1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 50ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** 85 ~ 264VAC 120 ~ 370VDC [DC input operation possible by connecting AC/N(+), AC/L(-)] Note.5 FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 85% 75% 85% 78% 82% 83% 83% 84% 81% INPUT AC CURRENT (Typ.) 0.4A/115VAC 0.2A/230VAC INRUSH CURRENT (Typ.) COLD START 45A/230VAC LEAKAGE CURRENT <1mA/240VAC 115 ~ 150% rated output power **OVER LOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed PROTECTION 3.8 ~ 4.85V | 5.6 ~ 6.75V | 8.63~ 10.1V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 33V | 31.05 ~ 36.45V | 39.7 ~ 46.8V | 55.2 ~ 65.8V **OVER VOLTAGE** Protection type: Shut down o/p voltage, Clamping by zener diode -30 ~ +70°C (Refer to "Derating Curve") WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -40 ~ +85°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY **ENVIRONMENT** ±0.03%/°C (0 ~ 50°C) TEMP. COEFFICIENT **OPERATING ALTITUDE Note.7** 3000 meters **VIBRATION** 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, CCC GB4943.1 approved SAFETY STANDARDS I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC WITHSTAND VOLTAGE **SAFETY & ISOLATION RESISTANCE** I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC** (Note 4) Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, GB9254 Class B, GB17625.1 **EMC EMISSION** Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, heavy industry level, EAC TP TC 020 **EMC IMMUNITY MTBF** 6024.7K hrs min. Telcordia SR-332 (Bellcore); 849.3K hrs min. MIL-HDBK-217F (25°C) **DIMENSION** OTHERS 63.5*45.7*24mm (L*W*H) 0.057Kg; 120pcs/ 7.84Kg/0.94CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation.

- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets
- 5. Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.
- 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx









- Universal AC input / Full range
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 3"×2" compact size
- · LED indicator for power on
- No load power consumption<0.3W
- 3 years warranty



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SPECIFICATION

JI LOII IO	Allon					UL62368	-I BOEN/EI	102300-1 IFICU	U4 IEC62368-1			
MODEL		EPS-25-3.3	EPS-25-5	EPS-25-7.5	EPS-25-12	EPS-25-15	EPS-25-24	EPS-25-27	EPS-25-36	EPS-25-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V		
	RATED CURRENT	5A	5A	3.4A	2.1A	1.7A	1.05A	0.95A	0.7A	0.53A		
	CURRENT RANGE	0 ~ 5.5A	0 ~ 5.5A	0 ~ 3.74A	0 ~ 2.34A	0 ~ 1.87A	0 ~ 1.17A	0 ~ 1.05A	0~0.78A	0 ~ 0.59A		
	RATED POWER	16.5W	25W	25.5W	25.2W	25.5W	25.2W	25.65W	25.2W	25.44W		
	PEAK LOAD(10sec.) Note.6	18.15W	27.5W	28.05W	28.08W	28.05W	28.08W	28.35W	28.08W	28.32W		
OUTDUT	RIPPLE & NOISE (max.) Note.2	60mVp-p	60mVp-p	80mVp-p	100mVp-p	100mVp-p	180mVp-p	180mVp-p	200mVp-p	240mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	3.1 ~ 3.6V	4.75 ~ 5.5V	7.13 ~ 8.25V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 27V	24.3 ~ 29.7V	32.4 ~ 39.6V	43.2 ~ 52.8\		
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 30m	ns/230VAC	1000ms, 30m	ns/115VAC at fu	ıll load						
	HOLD UP TIME (Typ.)	50ms/230VA	C 16ms/1	15VAC at full lo	ad							
	VOLTAGE RANGE Note.5	85 ~ 264VAC	120 ~ 370	OVDC								
	FREQUENCY RANGE	47 ~ 63Hz										
INPUT	EFFICIENCY (Typ.)	79%	81%	83%	86%	87%	88%	89%	89%	90%		
	AC CURRENT (Typ.)	0.6A/115VA0	0.6A/115VAC 0.4A/230VAC									
-	INRUSH CURRENT (Typ.)	COLD STAR	T 35A/230VAC									
	LEAKAGE CURRENT	<1mA/240VA	AC .									
		115 ~ 170% ı	rated output po	wer								
	OVER LOAD	Protection ty	pe : Hiccup mo	de, recovers au	utomatically aft	er fault condition	on is removed					
PROTECTION	0.450.401.24.05	3.7 ~ 4.6V	5.6 ~ 6.75V	8.63~ 10.5V	14 ~ 17V	17.25 ~ 20.25V	27.6 ~ 32.4V	31.05 ~ 36.45V	39.7 ~ 46.8V	53.3 ~ 64.8		
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	-30 ~ +70°C	(Refer to "Dera	iting Curve")								
	WORKING HUMIDITY	20 ~ 90% RH	l non-condensi	ng								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C,	10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C	(0 ~ 50°C)									
	OPERATING ALTITUDE Note.8	2000 meters										
	VIBRATION	10 ~ 500Hz,	2G 10min./1cy	cle, period for 6	30min. each alc	ng X, Y, Z axes	3					
	SAFETY STANDARDS	UL62368-1,	TUV BS EN/EN	162368-1, EAC	TP TC 004 app	roved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KV/	AC I/P-FG:2I	KVAC O/P-F	G:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	0M Ohms / 500	VDC / 25°C / 70)% RH						
(Note 4)	EMC EMISSION	Compliance	to BS EN/EN55	032 (CISPR32) Class B, BS E	EN/EN61000-3-	-2,-3, EAC TP	TC 020				
	EMC IMMUNITY	Compliance	to BS EN/EN61	000-4-2,3,4,5,	6,8,11, BS EN/	EN55035, heav	y industry leve	el, EAC TP TC	020			
	MTBF	3830.1K hrs	min. Telcord	lia SR-332 (Bel	llcore) ; 655.4K	hrs min. MI	L-HDBK-217F	(25°C)				
OTHERS	DIMENSION	76.2*50.8*24	1mm (L*W*H)									
	PACKING	0.081Kg; 120	pcs/10.7Kg/0.	94CUFT								
		TACKING STORY TO THE STORY TO T										

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com)
- 5. Derating may be needed under low input voltage. Please check the static characteristics for more details.
 6. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.
- 7. EPS-25-15/24/27/36/48 without Hs1.
- 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







- Universal AC input / Full range
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 3"×2" compact size
- · LED indicator for power on
- No load power consumption<0.3W
- 3 years warranty



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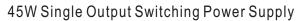
SPECIFICATION UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1													
MODEL		EPS-35-3.3	EPS-35-5	EPS-35-7.5	EPS-35-12	EPS-35-15	EPS-35-24	EPS-35-27	EPS-35-36	EPS-35-48			
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V			
	RATED CURRENT	6A	6A	4.7A	3A	2.4A	1.5A	1.3A	1A	0.75A			
	CURRENT RANGE	0 ~ 6.6A	0 ~ 6.6A	0 ~ 5.2A	0 ~ 3.3A	0 ~ 2.65A	0 ~ 1.65A	0 ~ 1.45A	0 ~ 1.1A	0~0.82A			
	RATED POWER	19.8W	30W	35.25W	36W	36W	36W	35.1W	36W	36W			
	PEAK LOAD(10sec.) Note.6	21.78W	33W	39W	39.6W	39.75W	39.6W	39.15W	39.6W	39.36W			
	RIPPLE & NOISE (max.) Note.2	60mVp-p	70mVp-p	80mVp-p	100mVp-p	100mVp-p	180mVp-p	180mVp-p	200mVp-p	240mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	3.1 ~ 3.6V	4.75 ~ 5.5V	7.13 ~ 8.25V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 27V	24.3 ~ 29.7V	32.4 ~ 39.6V	43.2 ~ 52.8			
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±1.5%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1000ms, 30m	1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load										
	HOLD UP TIME (Typ.)	50ms/230VA	C 16ms/1	15VAC at full lo	oad								
	VOLTAGE RANGE Note.5	85 ~ 264VAC	120 ~ 370	OVDC									
	FREQUENCY RANGE	47 ~ 63Hz											
INPUT	EFFICIENCY (Typ.)	80%											
	AC CURRENT (Typ.)	0.75A/115VA	C 0.5A/2	230VAC									
	INRUSH CURRENT (Typ.)	COLD STAR	T 40A/230VAC	;									
L	LEAKAGE CURRENT	<1mA/240VA	AC .										
	0.450	115 ~ 170%	rated output po	wer									
	OVER LOAD	Protection ty	pe : Hiccup mo	de, recovers a	utomatically aft	er fault condition	on is removed						
PROTECTION		3.7 ~ 4.6V	5.6 ~ 6.75V	8.63~ 10.5V	14 ~ 17V	17.25 ~ 20.25V	27.6 ~ 32.4V	31.05 ~ 36.45V	39.7 ~ 46.8V	53.3 ~ 64.8			
	OVER VOLTAGE	Protection ty	pe: Shut dowr	n o/p voltage, re	e-power on to r	ecover	•			-			
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C,	10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)										
	OPERATING ALTITUDE Note.8	2000 meters											
	VIBRATION	10 ~ 500Hz,	2G 10min./1cy	cle, period for 6	30min. each ald	ong X, Y, Z axes	3						
	SAFETY STANDARDS	UL62368-1,	TUV BS EN/EN	162368-1, EAC	TP TC 004 app	roved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KV/	AC I/P-FG:2I	KVAC O/P-F	G:0.5KVAC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	FG, O/P-FG:10	0M Ohms / 500	VDC / 25°C / 7	'0% RH							
(Note 4)	EMC EMISSION	Compliance	to BS EN/EN55	5032 (CISPR32	2) Class B, BS E	EN/EN61000-3	-2,-3, EAC TP	TC 020					
	EMC IMMUNITY	Compliance	to BS EN/EN61	1000-4-2,3,4,5,	6,8,11, BS EN/	EN55035, hea	y industry leve	el, EAC TP TC	020				
	MTBF	3673.9K hrs	min. Telcord	dia SR-332 (Be	llcore) ; 649.2K	hrs min. MI	L-HDBK-217F	(25°℃)					
OTHERS	DIMENSION	76.2*50.8*24	Imm (L*W*H)		,,			, ,					
	PACKING	0.085Kg; 120	pcs/11.2Kg/0.	94CUFT									
NOTE	All parameters NOT specia Pipple & paige are massure												

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com)
- 5. Derating may be needed under low input voltage. Please check the static characteristics for more details.

 6. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.

 7. EPS-35-24/27/36/48 without Hs1.
- 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx











■ GTIN CODE



Features :

- Universal AC input / Full range
- Optional L-Bracket and cover
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 4"×2" compact size
- LED indicator for power on
- No load power consumption<0.3W
- Operating altitude up to 4000 meters
- 3 years warranty



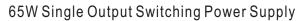


C SUL62368-1	BS EN/EN62368-1	TPTC004	CB IEC62368-1	CE	UK CA
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MODEL		EPS-45-3.3	EPS-45-5	EPS-45-7.5	EPS-45-12	EPS-45-15	EPS-45-24	EPS-45-36	EPS-45-48			
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V			
	RATED CURRENT	8A	8A	5.4A	3.75A	3A	1.9A	1.25A	1A			
	CURRENT RANGE	0 ~ 9A	0 ~ 9A	0 ~ 6A	0 ~ 4.2A	0 ~ 3.3A	0 ~ 2.1A	0 ~ 1.4A	0 ~ 1.1A			
	RATED POWER	26.4W	40W	40.5W	45W	45W	45.6W	45W	48W			
	PEAK LOAD(10sec.) Note.6	29.7W	45W	42W	50.4W	49.5W	50.4W	50.4W	52.8W			
ОИТРИТ	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-p			
OUIPUI	VOLTAGE ADJ. RANGE	3.1 ~ 3.6V	4.75 ~ 5.5V	7.13 ~ 8.25V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 27V	32.4 ~ 39.6V	43.2 ~ 52.8\			
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME	1000ms, 50ms	/230VAC	2000ms, 50ms/1	15VAC at full load							
	HOLD UP TIME (Typ.)	50ms/230VAC	50ms/230VAC 16ms/115VAC at full load									
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/N(+), AC/L(-)]										
	FREQUENCY RANGE 47 ~ 63Hz											
INPUT	EFFICIENCY (Typ.)	80%	82%	84%	87%	88%	89%	89%	90%			
	AC CURRENT (Typ.)	1.8A/115VAC	1 A/230V	'AC								
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC										
	LEAKAGE CURRENT	<2mA/240VAC										
	OVER LOAD	115 ~ 160% ra			natically after faul	It condition is ren	noved					
PROTECTION		3.7 ~ 4.45V	5.6 ~ 6.75V	8.63 ~ 10.1V			V 27.6 ~ 32.4V	39.7 ~ 46.8V	53.3 ~ 64.8			
	OVER VOLTAGE				ower on to recove		V 27.0 02.4V	00.7 10.07	00.0 01.0			
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH										
LINVINONIILINI	TEMP. COEFFICIENT	±0.03%°C (0~50°C)										
	OPERATING ALTITUDE Note.7											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
	SAFETY STANDARDS		-		TC 004 approved							
SAFETY &	WITHSTAND VOLTAGE			/AC		<u>'</u>						
EMC	ISOLATION RESISTANCE				C / 25°C / 70% RH	ı						
(Note 4)	EMC EMISSION		,		ass B, BS EN/EN		C TP TC 020					
	EMC IMMUNITY	· ·			11, BS EN/EN550			TC 020				
	MTBF	2981.8K hrs m			re); 652.4K hrs m		•	10 020				
OTHERO	DIMENSION						(-2177 (25 C)					
OTHERS	PACKING		•	,		,	5Ka/0.63CLIET					
NOTE	1. All parameters NOT specially 2. Ripple & noise are measured 3. Tolerance : includes set up to 4. Derating may be needed und 5. 33% Duty cycle maximum wi 6. The power supply is consider mounting the unit on a 3 EMC directives. For guid (as available on http://www.m.)	mentioned are in a target and the second are a target and	PCB:101.6*50.8*29mm (L*W*H); with optional CASE:103.4*62*37mm (L*W*H) PCB: 0.14Kg; 96pcs/14.5Kg/1.39CUFT; with optional CASE: 0.3Kg; 45pcs/14.5Kg/0.63CUFT Identioned are measured at 230VAC input, rated load and 25°C of ambient temperature. It 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. In the regulation and load regulation. Iow input voltage. Please check the static characteristics for more details. In every 30 seconds. Average output power should not exceed the rated power. If a component which will be installed into a final equipment. All the EMC tests are been executed by the comma*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets note on how to perform these EMC tests, please refer to "EMI testing of component power supplies." anwell.com) In grad 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).									

ORDER NO		EPS-45S-3.3	EPS-45S-5	EPS-45S-7.5	EPS-45S-12	EPS-45S-15	EPS-45S-24	EPS-45S-48				
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V				
	RATED CURRENT	8A	8A	5.4A	3.8A	3A	1.9A	0.94A				
	CURRENT RANGE	0 ~ 8.8A	0 ~ 8.8A	0 ~ 5.95A	0 ~ 4.18A	0 ~ 3.3A	0 ~ 2.1A	0 ~ 1.03A				
	RATED POWER	26.4W	40W	40.5W	45.6W	45W	45.6W	45.1W				
DUTPUT	PEAK LOAD(10sec.) Note.2	29W	44W	44.6W	50.2W	49.5W	50.2W	49.4W				
	RIPPLE & NOISE (max.) Note.3		80mVp-p	80mVp-p	120mVp-p	150mVp-p	240mVp-p	300mVp-p				
	VOLTAGE ADJ.RANGE	3.1~3.6V	4.7~5.5V	7.12~8.3V	11.4~13.2V	13.5~16.5V	22.8~27.6V	45.6~52.8V				
	VOLTAGE TOLERANCE Note.4		±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION	土0.5%	土0.5%	士0.5%	±0.5%	土0.5%	±0.5%	±0.5%				
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%				
	SETUP, RISE TIME	500ms, 30ms / 23	1	, 30ms / 115VAC at		,						
	HOLD UP TIME (Typ.)	30ms / 230VAC	12ms / 115VAC		Tun Toda							
		80 ~ 264VAC	121107 1107/10	, at fair load								
	FREQUENCY RANGE	47 ~ 63Hz										
NPUT	EFFICIENCY (Typ.)	80%	83%	85%	88%	89%	90%	91%				
01	AC CURRENT (Typ.)	1.2A / 115VAC	1A / 230VAC	0070	0070	0370	3070	3170				
	INRUSH CURRENT (Typ.)		V115VAC 60A/23	0\/AC								
	LEAKAGE CURRENT(max.)			UVAC								
	ELANAGE GONNENT (max.)		0.25mA/264VAC									
	OVERLOAD	115 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed										
ROTECTION		3.8~5V	5.7~6.8V	8.62~11.3V	13.8~16.2V	17.25~20.3V	28.4~32.4V	55.2~64.8V				
KOTECTION	OVER VOLTAGE			tage, re-power on to		17.25~20.31	20.4~32.40	33.2~04.6V				
	WORKING TEMP.		fer to "Derating Cur		J 16COVEI							
V	WORKING TEMP. WORKING HUMIDITY	20% ~ 90% RH n		ve)								
		-40 ~ +85°C, 10										
NVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT											
	OPERATING ALTITUDE Note.7	±0.03% / °C (0 ~ 50°C) 5000 meters										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
	SAFETY STANDARDS					C 004 approved	ı					
	WITHSTAND VOLTAGE	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, EAC TP TC 004 approved I/P-0/P: 3KVAC										
SAFETY & EMC	ISOLATION RESISTANCE		mc / 500\/DC / 25°	C/70% DU								
Note. 8)	EMC EMISSION	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55032(CISPR32) Class B, BS EN/EN61000-3-2,3, EAC TP TC 020										
,	EMC IMMUNITY			4-2,3,4,5,6,8,11, B				020				
		3334.3K hrs m		8R-332 (Bellcore)				020				
	MTBF			,	, 100.0K IIIS IIIIII	. MIL-HDBK-2	217 (25 C)					
OTHERS	DIMENSION		or 3" * 2" *0.945" ir	icn (L"VV"H)								
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance: includes set up tolerance, line regulation and load regulation. 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. Touch current was measured from primary input to DC output. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 8. The power supply is considered a component which will be installed into a final equipment. "All the EMC tests are been executed by mountir the unit on a 360mm*360mm metal plate with 1mm of thickness." 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." (as available on http://www.meanwell.com) ***Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx											









- Universal AC input / Full range
- Optional L-Bracket and cover
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 4"×2" compact size
- LED indicator for power on
- * No load power consumption<0.3W
- Operating altitude up to 4000 meters
- 3 years warranty







■ GTIN CODE

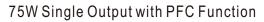
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EPS-65-3.3 -C =Blank,-C; Blank=PCB only, -C=Enclosed type

MODEL		EPS-65-3.3	EPS-65-5	EPS-65-7.5	EPS-65-12	EPS-65-15	EPS-65-24	EPS-65-36	EPS-65-48				
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V				
	RATED CURRENT	11A	11A	8A	5.42A	4.34A	2.71A	1.81A	1.36A				
	CURRENT RANGE	0 ~ 12A	0 ~ 12A	0 ~ 8.8A	0 ~ 6A	0 ~ 4.8A	0 ~ 3A	0 ~ 2A	0 ~ 1.5A				
	RATED POWER	36.3W	55W	60W	65.04W	65.1W	65.04W	65.16W	65.28W				
	PEAK LOAD(10sec.) Note.6	39.6W	60W	66W	72W	72W	72W	72W	72W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-p				
DUTPUT	VOLTAGE ADJ. RANGE	3.1 ~ 3.6V	4.75 ~ 5.5V	7.13 ~ 8.25V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 27V	32.4 ~ 39.6V	43.2 ~ 52.8\				
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	SETUP, RISE TIME	1000ms, 50ms		000ms, 50ms/11	5VAC at full load		1	1					
	HOLD UP TIME (Typ.)	50ms/230VAC 12ms/115VAC at full load											
		90 ~ 264VAC			neration possible	by connecting A	C/N(+) AC/I (-)1						
	FREQUENCY RANGE	47 ~ 63Hz		[======================================	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	EFFICIENCY (Typ.)	80%	82%	84%	86%	87%	88%	89%	90%				
NPUT	AC CURRENT (Typ.)	1.8A/115VAC											
	INRUSH CURRENT (Typ.)		1.8A/115VAC 1A/230VAC COLD START 60A/230VAC										
	LEAKAGE CURRENT	<2mA/240VAC											
	ELARAGE GORRERT		ed output power	,									
PROTECTION	OVER LOAD				atically after fault	condition is rem	oved						
		3.7 ~ 4.45V	5.6 ~ 6.75V	8.63 ~ 10.1V	13.8 ~ 16.2V	17.25 ~ 20.25\	27.6 ~ 32.4V	39.7 ~ 46.8V	53.3 ~ 64.8				
	OVER VOLTAGE	Protection type	: Shut down o/	p voltage, re-pov	ver on to recover	1							
v	WORKING TEMP.	-30 ~ +70°C (F	Refer to output lo	oad derating curv	re)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C(0~50°C)											
	OPERATING ALTITUDE Note.7												
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	SAFETY STANDARDS		-	368-1, EAC TP T		,							
	WITHSTAND VOLTAGE			C O/P-FG:0.5									
SAFETY &	ISOLATION RESISTANCE			Ohms / 500VDC									
EMC	EMC EMISSION	,	,			1000-3-2,-3, EA	C TP TC 020						
(Note 4)		·				35, heavy industr		TC 020					
	EMC IMMUNITY MTBF					in. MIL-HDBK		10 020					
OTHERS	DIMENSION	3077.6K hrs m		•			-217F (25 C)						
OTHERS	PACKING				CASE:103.4*62	0.3Kg; 45pcs/ 14	5Ka/0 63CHET						
	111211112												
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Derating may be needed up Tolerance: includes set up Derating may be needed up Tolerance: includes set up	ed at 20MHz of tolerance, line in der low input v within every 30 lered a componi plate with 1mm tests, please re meanwell.com)	bandwidth by u regulation and lo oltage. Please o seconds. Avera ent which will be n of thickness. T efer to "EMI testi	sing a 12" twisted bad regulation. Check the static ge output power installed into a The final equipming of componer	characteristics for should not exceptional equipment ent must be recont power supplie	or more details. eed the rated po . All the EMC test confirmed that it	ouf & 47uf parall wer. sts are been exe still meets EMC	ecuted by moundirectives. For g	juidance on				

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ORDER NO.		EPS-65S-3.3	EPS-65S-5	EPS-65S-7.5	EPS-65S-12	EPS-65S-15	EPS-65S-24	EPS-65S-48			
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V			
	RATED CURRENT	10A	10A	8A	5.42A	4.34A	2.71A	1.36A			
	CURRENT RANGE	0 ~ 11A	0 ~ 11A	0 ~ 8.8A	0 ~ 5.96A	0 ~ 4.77A	0 ~ 2.98A	0 ~ 1.49A			
	RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W			
OUTPUT	PEAK LOAD(10sec.) Note.2	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W			
	RIPPLE & NOISE (max.) Note.3		80mVp-p	80mVp-p	120mVp-p	150mVp-p	240mVp-p	300mVp-p			
	VOLTAGE ADJ.RANGE	2.9~3.6V	4.7~5.5V	7.12~8.3V	11.4~13.2V	13.5~16.5V	22.8~27.6V	45.6~52.8V			
	VOLTAGE TOLERANCE Note.4		±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	土0.5%	±0.5%	土0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME	500ms, 30ms / 230VAC 500ms, 30ms / 115VAC at full load									
	HOLD UP TIME (Typ.)	30ms / 230VAC	12ms / 115VAC								
		80 ~ 264VAC	121107 110 1710	o at fair load							
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT											
01	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC	00 /0	00 /0	0070	30 /0	91%			
	INRUSH CURRENT (Typ.)			201/40							
	LEAKAGE CURRENT(max.)	0.25mA/264VAC	A/115VAC 50A/23	BUVAC							
	LEARAGE CORRENT (IIIax.)		1								
	OVERLOAD	115 ~ 150% rated				:					
PROTECTION			1	overs automatically			07.0.00.07	55.0.04.014			
PROTECTION	OVER VOLTAGE	3.8~4.46V	5.75~6.75V	8.62~11.3V	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V			
				tage, re-power on t	o recover						
	WORKING TEMP.	,	er to "Derating Cur	ve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40~+85°C, 10~95% RH									
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)									
	OPERATING ALTITUDE Note.6	5000 meters 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	VIBRATION										
	SAFETY STANDARDS		BS EN/EN62368-	- 1, BS EN/EN6033	b-1, EAC IP IC 00	4 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC	15001D0 105°	C 1700/ DII							
EMC	ISOLATION RESISTANCE		ms / 500VDC / 25°			FA 0 TD TO 000					
(Note. 7)	EMC EMISSION	<u>'</u>	· · · · · · · · · · · · · · · · · · ·	PR32) Class B, BS E							
	EMC IMMUNITY			,3,4,5,6,8,11, BS EN	•	•					
	MTBF	3334.3K hrs mi		SR-332 (Bellcore)	; 706.6K hrs min	. MIL-HDBK-2	217F (25°C)				
OTHERS	DIMENSION		or 3" * 2" *0.945" ir	nch (L*W*H)							
	PACKING	0.11Kg; 120pcs/1	4.2Kg/0.94CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power. (as available on http://www.meanwell.com) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										









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■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- No load power consumption<0.5W
- 3 years warranty



CBUL62368-1 BS EN/EN62368-1 IEC62368-1 TPTC004

MODEL		ELP-75-3.3	ELP-75-5	ELP-75-12	ELP-75-15	ELP-75-24	ELP-75-36	ELP-75-48							
	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V							
	RATED CURRENT	15A	15A	6.25A	5A	3.15A	2.1A	1.6A							
	CURRENT RANGE	0 ~ 15A	0 ~ 15A	0 ~ 6.25A	0 ~ 5A	0 ~ 3.15A	0 ~ 2.1A	0 ~ 1.6A							
	RATED POWER	49.5W	75W	75W	75W	75.6W	75.6W	76.8W							
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-p							
DUTPUT	VOLTAGE ADJ. RANGE	3 ~ 3.6V	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	32.4 ~ 39.6V	43.2 ~ 52.8V							
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%							
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%							
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%									
	SETUP, RISE TIME	2500ms, 50ms/2	2500ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load												
	HOLD UP TIME (Typ.)	20ms/230VAC	20ms/115VAC	at full load											
	VOLTAGE RANGE Note.6	90 ~ 264VAC	127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz													
	POWER FACTOR (Typ.) Note.5	3.3V: PF>0.91/2	30VAC 5V~48	V: PF>0.95/230V/	AC PF>0.98/	115VAC at full load									
INPUT	EFFICIENCY (Typ.)	80%													
	AC CURRENT (Typ.)	1.8A/115VAC	1 A/230VAC		'			'							
	INRUSH CURRENT (Typ.)	COLD START 60)A/230VAC												
	LEAKAGE CURRENT	<1mA/240VAC													
		105 ~ 150% rate	d output power												
	OVER LOAD	Protection type :	Hiccup mode, reco	vers automatically	after fault condition	on is removed									
PROTECTION		3.7 ~ 4.45V	5.6 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	39.7 ~ 46.8V	53.3 ~ 64.8\							
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover													
	WORKING TEMP.	-30 ~ +70 ℃ (Refer to "Derating Curve")													
	WORKING HUMIDITY	20 ~ 90% RH no	n-condensing	,											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10	~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C(0~													
	VIBRATION	10 ~ 500Hz, 2G	10min./1cycle, peri	od for 60min. each	along X, Y, Z axes	3									
	SAFETY STANDARDS		/ BS EN/EN62368-		• • •										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:2KVAC	O/P-FG:0.5KVAC	:										
EMC	ISOLATION RESISTANCE	I/P-O/P. I/P-FG.	O/P-FG:100M Ohn	ns / 500VDC/ 500\	/DC / 25°C/ 70% F	RH									
(Note 4)	EMC EMISSION		S EN/EN55032 (CI				020								
	EMC IMMUNITY		S EN/EN61000-4-2	,											
	MTBF	2229.2K hrs min		32 (Bellcore) ; 345		L-HDBK-217F (25	-								
OTHERS	DIMENSION		mm (L*W*H) with o	, , ,		,	,								
	PACKING														
NOTE	1. All parameters NOT specia	lly mentioned are ed at 20MHz of b	measured at 230' andwidth by using	VAC input, rated I a 12" twisted pai	oad and 25°C of	ambient temperat		B:0.25Kg; 48pcs/13Kg/0.96CUFT with optional CASE:0.54Kg; 25pcs/14.5Kg/0.7CUFT nentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. It 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.							

- 4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to a 300mm relar plate with mind of interfees. The final equipment must be re-commined that it still meets Live directives perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 5. 3.3V PF>0.92/230VAC, others PF>0.95/230VAC.
- 6. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







- 4"x2" Compact size
- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 92.5%
- Protections: Short circuit / Overload / Over voltage/Over temperature
- 75W free air convection, 100W with 20CFM forced air
- LED indicator for power on
- No load power consumption<0.5W
- Built-in 12V/0.3A auxiliary output
- 3 years warranty



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SPECIFICATION

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SPECIFIC	ATION			UL62368-1							
MODEL		EPP-100-12	EPP-100-15	EPP-100-24	EPP-100-27	EPP-100-48					
	DC VOLTAGE	12V	15V	24V	27V	48V					
	RATED CURRENT (convection)		5A	3.2A	2.8A	1.6A					
	RATED CURRENT (20CFM FAN)	8.5A	6.67A	4.2A	3.71A	2.1A					
	CURRENT RANGE (convection)	0 ~ 6.3A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.8A	0 ~ 1.6A					
	CURRENT RANGE (20CFM FAN)	0 ~ 8.5A	0 ~ 6.67A	0 ~ 4.2A	0 ~ 3.71A	0 ~ 2.1A					
	RATED POWER (convection)	75.6W	75W	76.8W	75.6W	76.8W					
OUTPUT	RATED POWER (20CFM FAN)	102W	100.05W	100.8W	100.17W	100.8W					
001101	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	240mVp-p	240mVp-p	300mVp-p					
	VOLTAGE ADJ. RANGE	11.76 ~ 12.6V	14.7 ~ 15.75V	23.52 ~ 25.2V	26.46 ~ 28.35V	47.04 ~ 50.4V					
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	$\pm 1.0\%$					
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$					
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%					
	SETUP, RISE TIME	1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load									
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 3	370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PI	F>0.98/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	91%	91%	92%	92.5%	92.5%					
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 70A/230VA	AC								
	LEAKAGE CURRENT	<2mA/240VAC									
		105 ~ 145% rated output	power								
0	OVER LOAD	· ·	node, recovers automatica	Illy after fault condition is re	emoved						
		13.2 ~ 15.6V	16.83 ~ 19.5V	27.7 ~ 31.5V	30.2 ~ 34.05V	51.3 ~ 62.7V					
PROTECTION	OVER VOLTAGE	Protection type : Shut do	own o/p voltage, re-power o	n to recover							
		110°C±10°C (RTH2),110°C±5°C (TSW2)									
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover									
FUNCTION	AUXILIARY POWER(AUX)		fan, tolerance \pm 10% at								
	WORKING TEMP.	-30 ~ +70°C (Refer to "De	•								
	WORKING HUMIDITY	20 ~ 90% RH non-conder									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% R									
ENVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)	11								
	OPERATING ALTITUDE Note.6	, ,									
	VIBRATION		cycle, period for 60min. ea	ch along X V 7 avec							
	SAFETY STANDARDS		EN62368-1, EAC TP TC 00								
	WITHSTAND VOLTAGE	·	:2KVAC	• • • • • • • • • • • • • • • • • • • •							
SAFETY &	ISOLATION RESISTANCE		100M Ohms / 500VDC/ 500								
EMC (Note 4)	EMC EMISSION	, ,	155032 (CISPR32) Class B		EAC TO TO 020						
(11016 4)		·	•			n					
	EMC IMMUNITY		161000-4-2,3,4,5,6,8,11, B			J					
071155	MTBF		ordia SR-332 (Bellcore) ; 2	49.6K hrs min. MIL-HDI	BK-217F (25°C)						
OTHERS	DIMENSION	101.6*50.8*29mm (L*W*I	,								
	PACKING	0.2Kg; 72pcs/15.4Kg/0.82		II I I I I I I I I I I I I I I I I I I							
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is conside EMC directives.	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. beasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. bet up tolerance, line regulation and load regulation. beconsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meet the ded under low input voltages. Please check the derating curve for more details.									

- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



MODEL			EPS-120-12	EPS-120-15	EPS-120-24	EPS-120-27	EPS-120-48				
	DC VOLTAGE		12V	15V	24V	27V	48V				
	OUDDENT	10CFM	10A	8A	5A	4.5A	2.5A				
	CURRENT	Convection	7.0A	5.6A	3.5A	3.15A	1.75A				
	RATED	10CFM	120W	120W	120W	121.5W	120W				
	POWER	Convection	84W	84W	84W	85W	84W				
	RIPPLE & NOIS	E (max.) Note.2	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p				
OUTPUT	VOLTAGE A	J. RANGE	11.4~12.6V	14.3~15.8V	22.8~25.2V	25.6 ~ 28.4V	45.6 ~50.4V				
	VOLTAGE TOL	ERANCE Note.3	±2.0%	±2.5%	±1.0%	±1.0%	±1.0%				
	LINE REGUL	ATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGUI	_ATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	SETUP, RISE	TIME	500ms, 30ms/230VAC	500ms, 30ms/115	VAC at full load	1					
	HOLD UP TIM	IE (Тур.)	50ms/230VAC 10	ms/115VAC at full load							
	VOLTAGE RA	NGE Note.4	80 ~ 264VAC 113	~ 370VDC							
	FREQUENCY	RANGE	47 ~ 63Hz								
	EFFICIENCY	(Тур.)	88%	88.5%	90%	90%	91%				
INPUT	AC CURREN		2.1A/115VAC 1.2	A/230VAC			J.				
	INRUSH CUR		COLD START 30A/115	5VAC 60A/230VAC	,						
	LEAKAGE CU	JRRENT	<0.75mA/240VAC								
			15~150% rated output power								
	OVERLOAD		· ·	ip mode, recovers autor	natically after fault con	dition is removed					
DDOTECTION			13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V				
PROTECTION	OVER VOLTAGE			down o/p voltage, re-po		1	32.0				
	OVER TEMP	ERATURE									
FUNCTION	FAN SUPPLY		• • • • • • • • • • • • • • • • • • • •	rotection type : Shut down o/p voltage, re-power on to recover 2V@0.5A for driving a fan ; tolerance -15% ~ +10% at main output 40% rated current (10CFM)							
	WORKING TE		-30 ~ +70°C (Refer to		,	(10	,				
	WORKING HI		20 ~ 90% RH non-con-								
		MP., HUMIDITY	0.7								
ENVIRONMENT	TEMP. COEF	· ·	±0.03%/°C (0~50°C)								
		LTITUDE Note.6	,	<i>)</i>							
	VIBRATION			./1cycle, 60min. each a	long X. Y. Z axes						
	SAFETY STA	NDARDS	<u> </u>	N/EN62368-1, IEC6236		pproved					
SAFETY &	WITHSTAND			FG:2KVAC O/P-FG:0		FF					
EMC				Ohms / 500VDC / 25°C/							
(Note 5)	EMC EMISSION		,			0-3-2,-3, EAC TP TC 02	20				
				, ,		BS EN/EN61000-6-2, he					
	EMC IMMUNI	TY	criteria A, EAC TP TC		,11, 00 214/21400000,	DO EN/ENO 1000-0-2, IN	cavy madatry level,				
	MTBF		,	elcordia SR-332 (Bellco	re) · 491 2K hrs min	MIL-HDBK-217F (25°C	2)				
OTHERS	DIMENSION		101.6*50.8*29mm (L*	· · · · · · · · · · · · · · · · · · ·	10), 401.21(1113111111.	WILE-FIDDIC-Z I/FI (20 C	<i>></i>				
OTTLENO	PACKING		,								
NOTE	All parame Ripple & r Tolerance Derating r The power mounting EMC dire (as availal The ambie	noise are mea : includes set nay be neede r supply is con the unit on a ctives. For gui ble on http://w	ecially mentioned are r sured at 20MHz of bar t up tolerance, line reg d under low input voltansidered a component 360mm*360mm metal idance on how to perfoww.meanwell.com)	ally mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacito to tolerance, line regulation and load regulation. under low input voltages. Please check the derating curve for more details. dered a component which will be installed into a final equipment. All the EMC tests are been executed by 0mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still mee ince on how to perform these EMC tests, please refer to "EMI testing of component power supplies." v.meanwell.com) derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher							

 $\begin{tabular}{ll} \hline \& Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx \end{tabular}$



120W 3"×2" Green Open Frame Power Supply **EPP-120S** series

SPECIFICATION

MODEL			EPP-120S-12	EPP-120S-15	EPP-120S-24	EPP-120S-27	EPP-120S-48				
	DC VOLTAG	I	12V	15V	24V	27V	48V				
	CURRENT	Peak(10 sec.)	11.8A	9.5A	6.25A	5.55A	3.125A				
	CORRENT	Convection	9.5A	7.6A	5A	4.44A	2.5A				
	RATED	Peak(10 sec.)	141.6W	142.5W	150W	149.8W	150W				
	POWER	Convection	114W	114W	120W	119.9W	120W				
	RIPPLE & NOI	SE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p				
UTPUT	VOLTAGE A		11.4~12.6V	14.3~15.8V	22.8~25.2V	25.6 ~ 28.4V	45.6 ~50.4V				
	VOLTAGE TOL	ERANCE Note.3	+2.0%	±2%	±1.0%	±1.0%	±1.0%				
	LINE REGUL		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
			±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	LOAD REGU					1.0%	⊥ 1.0%				
	SETUP, RISE		600ms, 30ms/230VAC 600ms, 30ms/115VAC at full load								
	HOLD UP TII			ims/115VAC at full	load						
		ANGE Note.4		3 ~ 370VDC							
	FREQUENC	RANGE	47 ~ 63Hz								
	POWER FAC	TOR	PF>0.94/230VAC	PF>0.98/115VA	C at full load						
IPUT	EFFICIENCY	(Typ.)	91%	92%	93%	94%	93.5%				
NPUT	AC CURREN	T (Typ.)	2.3A/115VAC 1.	.1A/230VAC							
	INRUSH CUF	RRENT (Typ.)	COLD START 30A/1	15VAC 60A/2	30VAC						
	LEAKAGE C	URRENT	<0.75mA/240VAC								
			130~160% rated outs	30~160% rated output power							
	OVERLOAD			· ·	rs automatically after fault	condition is removed					
			13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V				
ROTECTION	OVER VOLTA	AGE				25.7 00 0	02.0 02.4V				
	01/50 55110				e, re-power on to recover						
	OVER TEMP		* '	<u>.</u>	covers automatically after te	mperature goes down					
	WORKING T		-30 ~ +85°C (Refer to		")						
	WORKING H			20 ~ 90% RH non-condensing -40 ~ +85°C							
	STORAGE TE										
NVIRONMENT	TEMP. COEF	FICIENT	±0.03%/°C (0 ~ 50°C	·							
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
			5000 meters								
	SAFETY STA	NDARDS	UL62368-1, TUV BS	EN/EN62368-1, E	3S EN/EN60335-1, IEC623	68-1, EAC TP TC 004	approved				
	WITHSTAND	VOLTAGE	I/P-O/P:4KVAC I/P	-FG:2KVAC O/	P-FG:1.5KVAC						
	ISOLATION	RESISTANCE	I/P-O/P, I/P-FG, O/P-	FG: 100M Ohms	500VDC / 25°C / 70% RH						
			Parameter		Standard	Test Leve	I / Note				
	EMC EMISS	NON	Conducted emission		BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32)	Class B	I D. Ol II. Ol A				
	EIVIC EIVIIS	SION	Radiated emission Harmonic current		BS EN/EN61000-3-2	Class 1 : C	lass B , Class II : Class A				
AFETY &			Voltage flicker		BS EN/EN61000-3-3						
MC			BS EN/EN55035, BS EN	N/EN61000-6-2							
Note 6)			Parameter		Standard	Test Leve					
			RF field susceptibility		BS EN/EN61000-4-2 BS EN/EN61000-4-3	Level 3, 10	CV air; Level 3, 4KV contact DV/m(80MHz~2.7GHz)				
			EFT bursts		BS EN/EN61000-4-4	Level 3, 2k	<u>~28V/m(385MHz~5.78GHz</u> ∵v				
	EMC IMMU	NITY	Surge susceptibility		BS EN/EN61000-4-5		V/Line-FG; 2KV/Line-Line				
			Conducted susceptibility	1	BS EN/EN61000-4-6	Level 3, 10	V				
			Magnetic field immunity		BS EN/EN61000-4-8	Level 4, 30					
			Voltage dip, interruption		BS EN/EN61000-4-11		periods, 30% dip 25 periods, ptions 250 periods				
	MTBF		4071.1K hrs min. Te	elcordia SR-332 (Be	ellcore); 470.2K hrs min.	// IL-HDBK-217F (25°C)	·				
THERS	DIMENSION		76.2*50.8*28mm (L*	W*H) or 3" * 2" *	1.1" inch						
	DACKING		0.13Kg; 100pcs/14Kg/								
	PACKING										

 Tolerance: includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltages. Please check the derating curve for more details.
 The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
 The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com)
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■ GTIN CODE

SPECIFICATION

MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Features :

- 4"x2" Compact size
- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- 100W free air convection, 150W with 20CFM forced air
- LED indicator for power on
- No load power consumption<0.5W
- Built-in 12V/0.3A auxiliary output
- · 3 years warranty







User's Manual

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MODEL		EPP-150-12	EPP-150-15	EPP-150-24	EPP-150-27	EPP-150-48			
	DC VOLTAGE	12V	15V	24V	27V	48V			
	RATED CURRENT (convection)	8.4A	6.7A	4.2A	3.71A	2.1A			
	RATED CURRENT (20CFM FAN)	12.5A	10A	6.25A	5.56A	3.125A			
	CURRENT RANGE (convection)	0 ~ 8.4A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 3.71A	0 ~ 2.1A			
	CURRENT RANGE (20CFM FAN)	0 ~ 12.5A	0 ~ 10A	0 ~ 6.25A	0 ~ 5.56A	0 ~ 3.125A			
	RATED POWER (convection)	100.8W	100.5W	100.8W	100.17W	100.8W			
	RATED POWER (20CFM FAN)	150W	150W	150W	150.12W	150W			
OUTPUT	RIPPLE & NOISE (max.) Note.2	130mVp-p	150mVp-p	240mVp-p	240mVp-p	300mVp-p			
	VOLTAGE ADJ. RANGE	11.76 ~ 12.6V	14.7 ~ 15.75V	23.52 ~ 25.2V	26.46 ~ 28.35V	47.04 ~ 50.4V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME	1000ms, 30ms/230VAC	2000ms, 30ms/115VA	C at full load					
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms	/115VAC at full load						
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 3	370VDC						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF	>0.98/115VAC at full load						
INPUT	EFFICIENCY (Typ.)	91.5%	92%	93%	92%	92%			
	AC CURRENT (Typ.)	1.8A/115VAC 1 A/2	30VAC						
	INRUSH CURRENT (Typ.)	COLD START 70A/230VAC							
	LEAKAGE CURRENT	<2mA/240VAC							
	OVER LOAD	105 ~ 145% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVED VOLTAGE	13.2 ~ 15.6V	16.83 ~ 19.5V	27.7 ~ 31.5V	30.2 ~ 34.05V	51.3 ~ 62.7V			
PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Protection type : Shut do	wn o/p voltage, re-power	on to recover					
FUNCTION	AUXILIARY POWER(AUX)	12V@0.3A for driving a	fan, tolerance \pm 10% at	main output 100% load					
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENV/IDOMMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
ENVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C (0~45°C)							
	OPERATING ALTITUDE Note.5								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL62368-1, TUV BS EN/I	EN62368-1, EAC TP TC 00	04 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG	:2KVAC O/P-FG:0.5KVA	AC .					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:	100M Ohms / 500VDC/ 500	0VDC / 25°C / 70% RH					
(Note 6)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, heavy industry level, EAC TP TC 020							
	MTBF	2002.2K hrs min. Telco	ordia SR-332 (Bellcore) ; 2	207.1K hrs min. MIL-HD	BK-217F (25°C)				
OTHERS	DIMENSION	101.6*50.8*29mm (L*W*I	, .		, ,				
	PACKING	0.2Kg; 72pcs/15.4Kg/0.82	/						
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up	y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation. der low input voltages. Please check the derating curve for more details.							

5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets



			EPP-200-12	EPP-200-15	EPP-200-24	EPP-200-27	EPP-200-48			
	DC VOLTAGE		12V	15V	24V	27V	48V			
	CURRENT	10CFM	16.7A	13.4A	8.4A	7.5A	4.2A			
	CURRENT	Convection	11.7A	9.4A	5.9A	5.3A	3A			
	RATED	10CFM	200.4W	201W	201.6W	202.5W	201.6W			
	POWER	Convection	140.4W	141W	141.6W	143.1W	144W			
	RIPPLE & NOIS	E (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	200mVp-p			
OUTPUT	VOLTAGE A	J. RANGE	11.4~12.6V	14.3~15.8V	22.8~25.2V	25.6 ~ 28.4V	45.6 ~50.4V			
Ī	VOLTAGE TOL	ERANCE Note.3	±2.0%	±2.5%	±1.0%	±1.0%	±1.0%			
	LINE REGUL	ATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGUI	LATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE	TIME	500ms, 30ms/230VA	C 500ms, 30ms	s/115VAC at full load					
İ	HOLD UP TIM	IE (Тур.)	12ms/230VAC	12ms/115VAC at full	load					
	VOLTAGE RA	NGE Note.4	80 ~ 264VAC 1	13 ~ 370VDC						
ŀ	FREQUENCY	RANGE	47 ~ 63Hz							
-	POWER FAC			F>0.98/115VAC at fu	ıll load					
-	EFFICIENCY		93%	93%	94%	94%	94%			
	AC CURREN			IA/230VAC						
F	INRUSH CUR									
-	LEAKAGE CU		<0.75mA/240VAC							
			110 ~ 140% rated output power							
	OVERLOAD		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
DDOTECTION	OVER VOLTAGE		13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V			
PROTECTION				ut down o/p voltage. r	e-power on to recover					
ŀ	OVER TEMP	FRATURE	Protection type: Shut down o/p voltage, re-power on to recover							
	FAN SUPPLY									
	WORKING TE	:MP		30 ~ +70°C (Refer to "Derating Curve")						
-	WORKING HI		20 ~ 90% RH non-condensing							
			Y -40 ~ +85°C, 10 ~ 95% RH							
ENVIRONMENT H	TEMP. COEFI	· ·	±0.03%/°C (0~50°C)							
-										
-	VIBRATION	LITTUDE NOTE.6	5000 meters 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STA	NDARDS		•	• • •	M approved				
	WITHSTAND		UL62368-1, TUV BS EN/EN62368-1, IEC62368-1, EAC TP TC 004 approved I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
ואס			I/P-O/P.3KVAC 1/F							
(Noto 5)	EMC EMISSION		,			P Padiation for Class	P with EC/Class I \ and			
	LINIC EINISSIC)I4	Compliance to BS EN/EN55032 (CISPR32) Conduction for Class B Radiation for Class B with FG(Class I) and Class A without FG(Class II), BS EN/EN61000-3-2,-3, EAC TP TC 020							
	EMC IMMUNI	TY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, heavy industry leveriteria A, EAC TP TC 020							
	MTBF		2672.7K hrs min.	25°ℂ)						
OTHERS	DIMENSION		101.6*50.8*29mm (L*W*H)							
-	PACKING		0.19Kg; 72pcs/14.7Kg/0.82CUFT							

- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com)
- 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







GTIN CODE

SPECIFICATION

MW Search: https://www.meanwell.com/serviceGTIN.aspx

- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 93%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in 12V/0.5A auxiliary output
- 5"x3" compact size
- Free air convection for 200W and 300W with 20.5 CFM forced air
- · With power good and fail signal output
- · Built-in remote sense function
- No load power consumption under 0.5W by PS-ON control
- Standby 5V@1A with fan, @ 0.6A without fan
- Operating altitude up to 5000 meters
- · 3 years warranty







MODEL EPP-300-12 EPP-300-15 EPP-300-24 EPP-300-27 EPP-300-48 DC VOLTAGE 12V 15V 24V 48V 27V RATED CURRENT (20.5CFM) 11.12A 6.25A 25A 20A 12.5A CURRENT RANGE (convection) 0 ~ 16.67A 0 ~ 13.33A 0 ~ 8.33A 0 ~ 7.4A 0 ~ 4.17A CURRENT RANGE (20.5CFM) 0 ~ 12.5A 0 ~ 11.12A 0 ~ 6.25A 0 ~ 25A 0 ~ 20A RATED POWER (convection) 200W 200W 199.9W 199.8W 200.2W RATED POWER (20.5CFM) 300W 300W 300W 300.24W 300W OUTPUT RIPPLE & NOISE (max.) Note.2 120mVp-p 120mVp-p 150mVp-p 200mVp-p 250mVp-p **VOLTAGE ADJ. RANGE** Main output:11.4 ~ 12.6V Main output:14.25 ~ 15.75V Main output:22.8 ~ 25.2V Main output:25.65 ~ 28.35V | Main output:45.6 ~ 50.4V **VOLTAGE TOLERANCE Note.3** $\pm 3.0\%$ $\pm 3.0\%$ $\pm 2.0\%$ $\pm 2.0\%$ $\pm 2.0\%$ LINE REGULATION +0.5%+0.5%+0.5%+0.5%+0.5%LOAD REGULATION $\pm 1.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ SETUP. RISE TIME 2500ms, 30ms/230VAC 3000ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 13ms/230VAC/115VAC at full load **VOLTAGE RANGE** 90 ~ 264VAC 127 ~ 370VDC Note.5 FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.93/230VAC PF>0.98/115VAC at full load INPUT EFFICIENCY (Typ.) 90% 90% 92.5% 93% 93% AC CURRENT (Typ.) 3.5A/115VAC 1.8A/230VAC INRUSH CURRENT (Typ.) COLD START 40A/115VAC 80A/230VAC LEAKAGE CURRENT <2mA/240VAC 105 ~ 135% rated output power OVERLOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed 26 ~ 30V 16.2 ~ 18.5V 29.5 ~ 33.5V 52 ~ 59.5V OVER VOLTAGE Protection type: Shut down o/p voltage, re-power on to recover **PROTECTION** 115°C \pm 5°C (TSW1) detect on heatsink of power transistor $115\pm5^{\circ}$ C (12V,15V),100 $\pm5^{\circ}$ C (24V,27V,48V) (TSW2) detect on heatsink of output diode OVER TEMPERATURE Protection type: (TSW1)Shut down o/p voltage, recovers automatically after temperature goes down Protection type: (TSW2)Shut down o/p voltage, re-power on to recover 5VSB : 5V@0.6A without fan, 1A with fan 20.5CFM ; tolerance \pm 2%, ripple : 150mVp-p(max.) **5V STANDBY AUXILIARY POWER (AUX)** 12V@0.5A for driving a fan ; tolerance -15% ~ +10% at main output 20% rated current (20.5CFM) **FUNCTION** PS-ON INPUT SIGNAL Power on: PS-ON = "Hi" or " > 2 ~ 5V" : Power off: PS-ON = "Low" or " < 0 ~ 0.5V" POWER GOOD / POWER FAIL 500ms>PG>10ms; The TTL signal goes high with 10ms to 500ms delay after power set up; The TTL signal goes low at least 1ms before Vo below 90% of rated value -30 ~ +70°C (Refer to "Derating Curve") WORKING TEMP 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -40 ~ +85°C , 10 ~ 95% RH STORAGE TEMP., HUMIDITY ENVIRONMENT **TEMP. COEFFICIENT** ±0.03%/°C (0 ~ 50°C) **OPERATING ALTITUDE Note.7** 5000 meters VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **SAFETY &** ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC** (Note 4) **EMC EMISSION** Compliance to BS EN/EN55032 (CISPR32), Conduction Class B, Radiation Class B; BS EN/EN61000-3-2, 3; EAC TP TC 020 **EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN60601-1-2, EAC TP TC 020 MTBF 1490.1K hrs min. Telcordia SR-332 (Bellcore); 160.3K hrs min. MIL-HDBK-217F (25°C) 127*76.2*35mm (L*W*H) **OTHERS DIMENSION PACKING** 0.37 Kg; 36pcs/14.3Kg/0.96CUFT; 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

NOTE

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation.

 The power supply is considered 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." (as available on http://www.meanwell.com)
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 6. Heat Sink HS1, HS2 can not be shorted.
- 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



MODEL			EPP-400-12	EPP-400-15	EPP-400-18	EPP-400-24	EPP-400-27	EPP-400-36	EPP-400-48		
	DC VOLTAGE		12V	15V	18V	24V	27V	36V	48V		
	CURRENT	25CFM	33.3A	26.7A	22.3A	16.7A	14.9A	11.2A	8.4A		
	CURRENT	Convection	20.8A	16.7A	13.9A	10.5A	9.3A	7A	5.3A		
	RATED	25CFM	399.6W	400.5W	401.4W	400.8W	402.3W	403.2W	403.2W		
	POWER	Convection	249.6W	250.5W	250.5W	252W	251.1W	252W	254.4W		
	RIPPLE & NOIS	E (max.) Note.2	120mVp-p	150mVp-p	180mVp-p	200mVp-p	200mVp-p	250mVp-p	250mVp-p		
OUTPUT	VOLTAGE ADJ. RAI	NGE(MAIN OUTPUT)	11.4~12.6V	14.3~15.8V	17.1~18.9V	22.8~25.2V	25.6 ~ 28.4V	34.2~37.8V	45.6 ~50.4V		
	VOLTAGE TOLI	ERANCE Note.3	±3.0%	±3.0%	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGUI	_ATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	SETUP, RISE	TIME	1000ms, 30ms/230VAC 1500ms, 30ms/115VAC at full load								
	HOLD UP TIN	IE (Тур.)	16ms/230VAC	12ms/115V/	AC at full load						
	VOLTAGE RA	NGE Note.4	80 ~ 264VAC	113 ~ 370VD	С						
	FREQUENCY	RANGE	47 ~ 63Hz								
	POWER FAC	TOR	PF>0.94/230V	AC PF>0.98/115	VAC at full load						
NPUT	EFFICIENCY	(Тур.)	91.5%	92%	93%	93%	93.5%	93%	94%		
	AC CURRENT	Г (Тур.)	4.2A/115VAC	2.1A/230VA	2						
	INRUSH CUR	RENT (Typ.)	COLD START	40A/115VAC	80A/230VAC						
	LEAKAGE CU	RRENT	<0.75mA/240	VAC							
	OVERLOAD		105 ~ 135% rated output power								
			Protection type	: Hiccup mode, r	ecovers automa	tically after fault	condition is remo	ved			
PROTECTION			13.2 ~ 15.6V	16.5 ~ 19.5V	19.8 ~ 23.4V	26.4 ~ 31.2V	29.7 ~ 35.1V	39.6 ~ 46.8V	52.8 ~ 62.4\		
ROTEOTION	OVER VOLTAGE		Protection type	: Shut down o/p	voltage, re-powe	r on to recover					
	OVER TEMP	ERATURE	Protection type	: Shut down o/p	voltage, recovers	automatically a	fter temperature	goes down			
	5V STANDBY		5VSB: 5V@0.6A without fan, 1A with fan 25CFM; tolerance ±2%, ripple: 120mVp-p(max.)								
	FAN SUPPLY		12V@0.5A for driving a fan ; tolerance -15% ~+10% at main output 35% rated current (25CFM)								
FUNCTION	PS-ON INPUT	SIGNAL	Power on: PS-	Power on: PS-ON = "Hi" or " > 2 ~ 5V"; Power off: PS-ON = "Low" or " < 0 ~ 0.5V"							
			500ms>PG>1	500ms>PG>10ms; The TTL signal goes high with 10ms to 500ms delay after power set up; The TTL signal							
	POWER GOOD	/ POWER FAIL	goes low at least 1ms before Vo below 90% of rated value								
	WORKING TE	MP.	-30 ~ +70°C (R	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HI	JMIDITY	20 ~ 90% RH n	20 ~ 90% RH non-condensing							
FNVIDONMENT	STORAGE TEI	MP., HUMIDITY	-40 ~ +85°C, 1	0 ~ 95% RH							
ENVIRONMENT	TEMP. COEFI	FICIENT	±0.03%/°C (0~50°C)								
	OPERATING A	LTITUDE Note.7	7 5000 meters								
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STA	NDARDS	UL62368-1, TI	JV BS EN/EN623	868-1,BS EN/EN	60335-1, IEC623	68-1, CCC GB49	943.1, EAC TP T	C 004 approved		
	WITHSTAND	VOLTAGE	I/P-O/P:3KVA	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
SAFETY &	ISOLATION F	RESISTANCE	E I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH								
EMC (Note 5)	EMC EMISSIO	ON	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3,CCC GB17625.1, GB/T9254, E						, EAC TP TC 0		
	EMC IMMUNI	TY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, heavy indust EAC TP TC 020					ndustry level,			
	MTBF		1395.2K hrs min. Telcordia SR-332 (Bellcore) ; 194.1K hrs min. MIL-HDBK-217F (25°					217F (25°C)			
OTHERS	DIMENSION		127*76.2*35mi		. ,			. ,			
	PACKING		0.39Kg; 36pcs/15Kg/0.96CUFT								

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. Touch current was measured from primary input to DC output.
- 6. The power supply is considered a component which will be installed into a final equipment. All the Class I (with FG) EMC test are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The Class II (without FG) EMC test is been executed by mounting the unit on a 130mm*86.6mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com)
- 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- * Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



MODEL		EPP-500-12	EPP-500-15	EPP-500-18	EPP-500-24	EPP-500-27	EPP-500-36	EPP-500-48	EPP-500-54		
	DC VOLTAGE		12V	15V	18V	24V	27V	36V	48V	54V	
	CURRENT	25CFM	41.6A	33.3A	27.8A	20.8A	18.5A	13.9A	10.4A	9.26A	
		Convection	26.7A	21.3A	17.8A	13.4A	11.9A	8.9A	6.7A	5.93A	
-	RATED	25CFM	499.2W	499.5W	500.4W	499.2W	499.5W	500.4W	499.2W	500W	
	POWER Note.5	Convection	320.4W	319.5W	320.4W	321W	321.3W	320.4W	321.6W	320.2W	
-	PEAK POWER	(3sec.)	550W								
	RIPPLE & NOIS	E (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE(MAIN OUTPUT)		11.4~12.6V	14.3~15.8V	17.1~18.9V	22.8~25.2V	25.6 ~ 28.4V	34.2~37.8V	45.6 ~50.4V	51 ~56V	
-	VOLTAGE TOLI	ERANCE Note.3	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGUL	ATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
-	LOAD REGUI	LATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE	TIME	1000ms, 30m	s/230VAC	1500ms, 30r	ms/115VAC at	full load				
	HOLD UP TIN	IE (Тур.)	10ms/230VA	C 10ms/115	VAC at full lo	ad					
	VOLTAGE RA	NGE Note.4	80 ~ 264VAC	113 ~ 37	0VDC						
	FREQUENCY RANGE		47 ~ 63Hz								
	POWER FAC	TOR	PF>0.94/230VAC PF>0.98/115VAC at full load								
INPUT	EFFICIENCY (Typ.)		91%	92%	92.5%	93%	93.5%	94%	94%	94%	
	AC CURRENT	Г (Тур.)	5.8A/115VAC 2.9A/230VAC								
-	INRUSH CUR	RENT (Typ.)	COLD START 40A/115VAC 80A/230VAC								
	LEAKAGE CU	RRENT	<0.75mA/240VAC								
	OVERLOAD		105 ~ 135% rated output power								
			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	OVER VOLTAGE		13.2 ~ 15.6V 16.5 ~ 19.5V 19.8 ~23.4V 26.4 ~ 31.2V 29.7 ~ 35.1V 39.6 ~ 46.8V 52.8 ~ 62.4V 56.7~59.4V								
			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER TEMP	ERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
	5V STANDBY	,	5Vsb : 5V@0.6A without fan, 1A with fan 25CFM ; tolerance ±2%, ripple : 120mVp-p(max.)								
	12V FAN SUP	PLY	12V@0.5A for driving a fan ;								
FUNCTION	PS-ON INPUT	SIGNAL	tolerance -15% ~+10% at main output 20% rated current (25CFM) Power on: PS-ON = "Hi" or " > 2 ~ 5V";								
			Power off: PS-ON = "Low" or " < 0 ~ 0.5V"								
	POWER GOOD	/ POWER FAIL	500ms>PG>10ms; The TTL signal goes high with 10ms to 500ms delay after power set up; The TTL sign goes low at least 1ms before Vo below 90% of rated value						TL signal		
	WORKING TE	MP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HI	JMIDITY	20 ~ 90% RH	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEI	MP.	-40 ~ +85°C								
H	TEMP. COEFI		±0.03%/°C (0~50°C)								
	VIBRATION			·	ycle, 60min. e	ach along X, Y	', Z axes				
	OPERATING ALTITUDE Note.5			·							



NOTE

	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, IEC62368-1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KV	/AC O/P-FG:0	.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms /	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
		Parameter	Standard		Test Level / Note					
		Conducted	BS EN/EN55032(CISPR32), CNS13438		Class I : Class B , Class II : Class A					
	EMC EMISSION	Radiated	BS EN/EN55032(CISPR32), CNS13438		Class A					
		Harmonic Current	BS EN/EN61000)-3-2	Class A					
SAFETY &		Voltage Flicker	BS EN/EN61000)-3-3						
EMC		BS EN/EN55024, BS EN/EN6100	00-6-2							
(Note 6)		Parameter	Standard		Test Level /Note					
	EMC IMMUNITY	ESD	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A					
		Radiated Susceptibility	BS EN/EN61000-4-3		Level 3, criteria A					
		EFT/Burest	BS EN/EN61000-4-4		Level 3, criteria A					
		Surge	BS EN/EN61000-4-5		Level 4,2KV/L-N, criteria A					
		Conducted	BS EN/EN61000	-4-6	Level 3, criteria A					
		Magnetic Field	BS EN/EN61000-4-8		Level 4, criteria A					
		Voltage Dips and interruptions BS EN/EN61000		-4-11	$>\!95\%$ dip 0. 5 periods, 30% dip 25 periods, $>\!95\%$ interruptions 250 periods					
	MTBF	1133.6K hrs min. Telcordia	SR-332 (Bellco	re); 137.1K hrs min.	MIL-HDBK-217F (25°C)					
	DIMENSION	I *\A/*! I		127x76.2x41mm						
OTHERS		L*W*H		5"x3"x1.61"inch						
		P.W.		0.46Kg						
	PACKING	Q'TY		30pcs						
	FACINIO	G.W.		14.8Kg						
		M'MENT		0.96CUFT						

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ f & 47μ f parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 6. The power supply is considered a component which will be installed into a final equipment. All the Class I (with FG) EMC test are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com)
- $\begin{tabular}{ll} \hline \& Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx \end{tabular}$

EMI Performance	Conducted	Radiated
Class I (with FG)	Class B	Class A
Class II (no FG)	Class A	Class A