



Features:

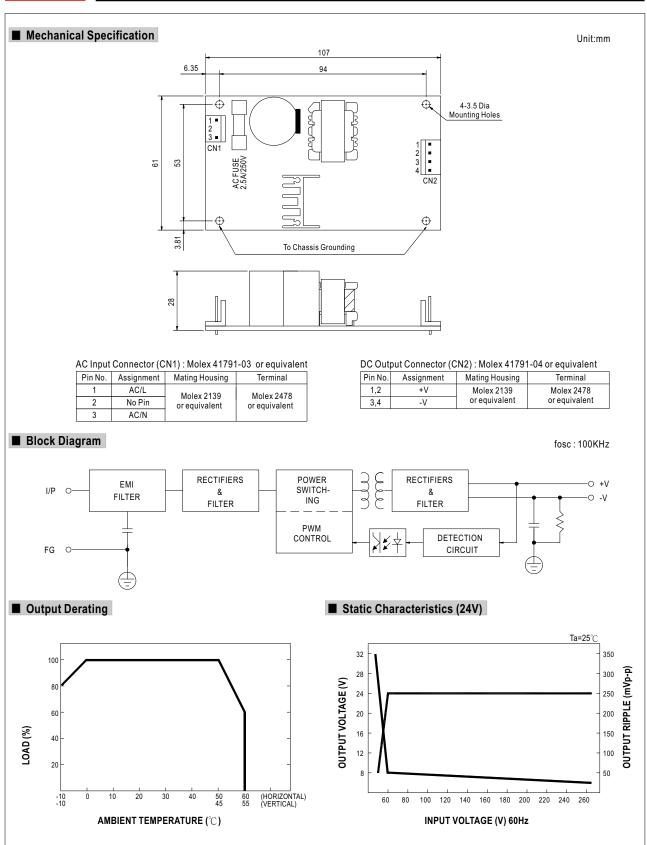
- Universal AC input / Full range
- Low leakage current < 0.5mA
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- Low cost
- High reliability
- 2 years warranty

CBCE

SPECIFICATION

MODEL		PS-25-3.3	PS-25-5	PS-25-7.5	PS-25-12	PS-25-13.5	PS-25-15	PS-25-24	PS-25-27	PS-25-48			
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V			
	RATED CURRENT	5A	5A	3.3A	2.1A	1.9A	1.7A	1A	0.9A	0.5A			
	CURRENT RANGE	0 ~ 5A	0 ~ 5A	0 ~ 3.3A	0 ~ 2.1A	0 ~ 1.9A	0 ~ 1.7A	0 ~ 1A	0~0.9A	0 ~ 0.5A			
	RATED POWER	16.5W	25W	24.8W	25.2W	25.7W	25.5W	24W	24.3W	24W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	100mVp-p	240mVp-p	240mVp-p	350mVp-p			
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%			
	LOAD REGULATION	±2.5%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	200ms, 20ms/230VAC 200ms, 30ms/115VAC at full load											
	HOLD TIME (Typ.)	100ms/230VAC 20ms/115VAC at full load											
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC											
	FREQUENCY RANGE	47 ~ 63Hz											
INPUT	EFFICIENCY(Typ.)	66%	74%	76%	78%	78%	78%	79%	79%	79%			
INPUI	AC CURRENT (Typ.)	0.6A/115VAC 0.4A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 36A											
	LEAKAGE CURRENT	<0.5mA/240VAC											
	OVER LOAD	Above 105% rated output power											
		Protection type: Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION	OVER VOLTAGE	3.8 ~ 4.46V	5.75 ~ 6.75\	/ 8.6 ~ 10.1V	13.8 ~ 16.2V	15.5 ~ 18.2V	17.3 ~ 20.3\	/ 27.6 ~ 32.4V	31 ~ 36.5V	55.2 ~ 64.8			
		Protection type : Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE	Tj 135°C typically (U1) Detect on main control IC											
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes											
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved											
	WITHSTAND VOLTAGE			.5KVAC O/P	-FG:0.5KVAC								
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms/500	VDC								
EMC	EMI CONDUCTION & RADIATION	Compliance t	o EN55022 (C	ISPR22) Class	В								
(Note 4)	HARMONIC CURRENT	Compliance t	o EN61000-3-	2,-3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5, Light industry level, criteria A											
OTHERS	MTBF	576.4Khrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	107*61*28mm (L*W*H)											
	PACKING	0.14Kg; 96pc		JFT									
NOTE	 Ripple & noise are measure Tolerance : includes set up 	ially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets											









Features:

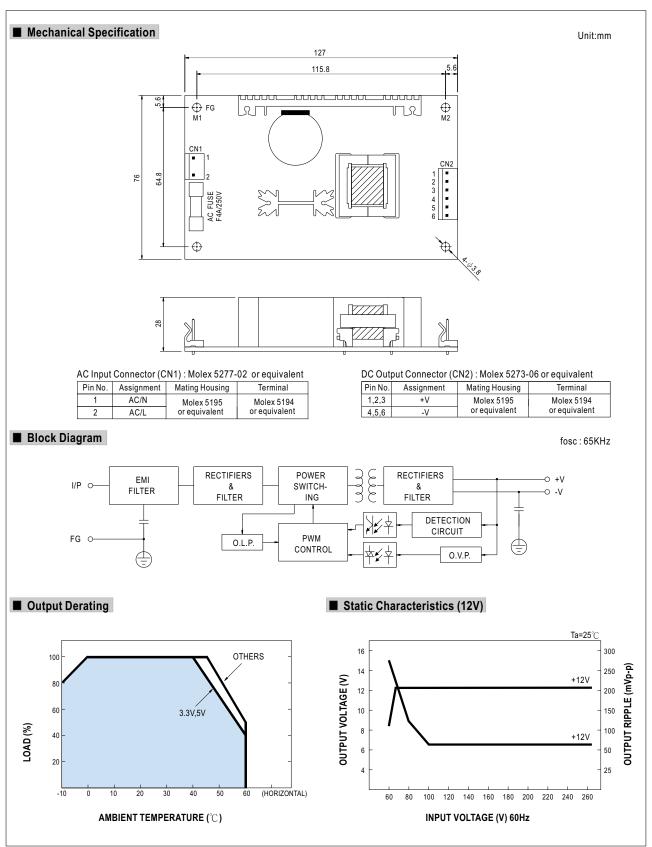
- Universal AC input/Full range
- Low leakage current<0.5mA
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz
- 2 years warranty

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SPECIFICATION

MODEL		PS-45-3.3	PS-45-5	PS-45-7.5	PS-45-12	PS-45-13.5	PS-45-15	PS-45-24	PS-45-27	PS-45-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V		
OUTPUT	RATED CURRENT	8A	8A	5.4A	3.7A	3.3A	3A	1.9A	1.7A	1A		
	CURRENT RANGE	0 ~ 10.7A	0 ~ 10.5A	0~7A	0 ~ 4.4A	0 ~ 3.9A	0 ~ 3.5A	0 ~ 2.2A	0 ~ 1.95A	0 ~ 1.1A		
	RATED POWER	26.4W	40W	40.5W	44.4W	44.6W	45W	45.6W	45.9W	48W		
	OUTPUT POWER (max.)	Rated output power for convection; 52W (+3.3V : 35W) with 18 CFM min.										
	RIPPLE & NOISE (max.) Note.2	-	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p		
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V	7.13 ~ 8.25V	11.4 ~ 13.2V	12.8 ~ 14.85V	14.25 ~ 16.5V	22.8 ~ 26.4V	25.65 ~ 29.7V	45.6 ~ 52.8V		
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%		
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%		
	SETUP, RISE TIME	800ms, 30ms at full load										
	HOLD TIME (Typ.)	60ms at full load										
	VOLTAGE RANGE	90 ~ 264VAC 127 ~370VDC										
	FREQUENCY RANGE	47 ~ 440Hz										
INPUT	EFFICIENCY(Typ.)	69%	74%	75%	76%	77%	77%	78%	78%	78%		
INFUI	AC CURRENT (Typ.)	0.8A/115VAC										
	INRUSH CURRENT (Typ.)	COLD START 15A/115VAC 30A/230VAC										
	LEAKAGE CURRENT	<0.75mA/240VAC										
	OVERLOAR	53 ~ 75W(3.3V : 36 ~ 55W) rated output power										
	Protection type: Hiccum mode, recovers automatically after fault condition is removed											
PROTECTION		3.8 ~ 4.46V 5.75 ~ 6.75V 8.63 ~ 10.1V 13.8 ~ 16.2V 15.5 ~ 18.2V 17.25 ~ 20.25V 27.6 ~ 32.4V 31 ~ 36.45V 55.2 ~ 64.8V										
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed.										
	WORKING TEMP.	-10 ~ +60 °C (Refer to output load derating curve)										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes										
	SAFETY STANDARDS UL60950, TUV EN60950-1 Approved											
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC										
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC										
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B										
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3										
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A										
OTHERS	MTBF	300.7K hrs min. MIL-HDBK-217F (25℃)										
	DIMENSION	127*76*28mm (L*W*H)										
	PACKING	0.19Kg; 72pc	s/15.6Kg/1.350	CUFT								
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consided EMC directives.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. o tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 2 should be grounded for EMI purposes.										









Features:

- Universal AC input/Full range
- Low leakage current<0.5mA
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz
- 2 years warranty

CBCE

SPECIFICATION

MODEL		PS-65-3.3	PS-65-5	PS-65-7.5	PS-65-12	PS-65-13.5	PS-65-15	PS-65-24	PS-65-27	PS-65-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V		
OUTPUT	RATED CURRENT	12A	12A	8A	5.2A	4.7A	4.2A	2.7A	2.4A	1.35A		
	CURRENT RANGE	0 ~ 15.2A	0 ~ 13.8A	0~9.6A	0 ~ 6A	0 ~ 5.4A	0 ~ 4.8A	0 ~ 3A	0 ~ 2.7A	0 ~ 1.5A		
	RATED POWER	39.6W	60W	60W	62.4W	63.5W	63W	64.8W	64.8W	64.8W		
	OUTPUT POWER (max.)	Rated output power for convection; 72W (+3.3V : 50W;+5V:69W) with 18 CFM min. Forced air										
	RIPPLE & NOISE (max.) Note.2	80mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p		
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V	7.13 ~ 8.25V	11.4 ~ 13.2V	12.8 ~ 14.9V	14.25 ~ 16.5V	22.8 ~ 26.4V	25.65 ~ 29.7V	45.6 ~ 52.8V		
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%		
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%		
	SETUP, RISE TIME	800ms, 20ms at full load										
	HOLD UP TIME (Typ.)	60ms at full load										
	VOLTAGE RANGE	90 ~ 264VAC 127 ~370VDC										
	FREQUENCY RANGE	47 ~ 440Hz										
INPUT	EFFICIENCY(Typ.)	69%	76%	79%	79%	79%	79%	80%	80%	80%		
	AC CURRENT (Typ.)	1.2A/115VAC 0.72A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC										
	LEAKAGE CURRENT	<0.75mA / 240VAC										
	OVERLOAD	73 ~ 105W(3.3V : 51 ~ 75W)(5V : 70 ~ 105W) rated output power										
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed.										
PROTECTION		3.8 ~ 4.46V 5.75 ~ 6.75V 8.63 ~ 10.1V 13.8 ~ 16.2V 15.5 ~ 18.2V 17.25 ~ 20.25V 27.6 ~ 32.4V 31 ~ 36.45V 55.2 ~ 64.8V										
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed.										
	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.04%/°C (0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes										
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved										
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC										
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC										
EMC (Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B										
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3										
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A										
OTHERS	MTBF	300.7K hrs min. MIL-HDBK-217F (25℃)										
	DIMENSION	127*76*42mm (L*W*H)										
	PACKING	0.21Kg; 54pc	s/14.2Kg/1.350	CUFT								
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. 	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. p tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 12 should be grounded for EMI purposes.										



