

SINGLE OUTPUT LED POWER SUPPLY

# ALIM. PLC-45

# 45W



	003793						
Model	PLC-45-12	PLC-45-15	PLC-45-20	PLC-45-24	PLC-45-27	PLC-45-36	PLC-45-48
<b>OUTPUT</b>							
DC Voltage	12V	15V	20V	24V	27V	36V	48V
Constant Current Region Note.6	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36 ~ 48V
Rated Current	3.8A	3A	2.3A	1.9A	1.7A	1.25A	0.95A
Current Range	0 ~ 3.8A	0 ~ 3A	0 ~ 2.3A	0 ~ 1.9A	0 ~ 1.7A	0 ~ 1.25A	0 ~ 0.95A
Rated Power	45.6W	45W	46W	45.6W	45.9W	45W	45.6W
Ripple & Noise (max.) Note.2	2Vp-p	2.4Vp-p	1.8Vp-p	2.7Vp-p	2.7Vp-p	3.6Vp-p	4.6Vp-p
Voltage ADJ. Range Note.5	11.5 ~ 13V	14.5 ~ 16.2V	19.5 ~ 22V	24 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8V
Current ADJ. Range Note.5	2.85 ~ 3.914A	2.25 ~ 3.1A	1.725 ~ 2.37A	1.425 ~ 1.957A	1.275 ~ 1.75A	0.938 ~ 1.288A	0.713 ~ 0.979A
Voltage Tolerance Note.3	±10%						
Line Regulation	±3.0%						
Load Regulation	±5.0%						
Setup Time	500ms / 230VAC 1200ms / 115VAC at full load						
<b>INPUT</b>							
Voltage Range Note.4	90 ~ 264VAC 127 ~ 370VDC						
Frequency Range	47 ~ 63Hz						
Power Factor (Typ.)	PF>0.95/115VAC, PF>0.9/230VAC at full load (Please refer to «Power Factor Characteristic» curve)						
Total Harmonic Distortion	THD< 20% when output loading ≥75% at 115VAC/230VAC input						
Efficiency (Typ.)	83.5%	85%	86.5%	86.5%	86.5%	87.5%	87.5%
AC Current (Typ.)	0.55A/115VAC 0.25A/230VAC						
Inrush Current (Typ.)	COLD START 35A(twidth=50µs measured at 50% Ipeak) at 230VAC						
MAX. No. of PSUs on 16A Circuit Breaker	42 units (circuit breaker of type B) / 42 units (circuit breaker of type C) at 230VAC						
Leakage Current	<0.75mA / 240VAC						
<b>PROTECTION</b>							
Over Current	95 ~ 110%						
	Protection type : Constant current limiting, recovers automatically after fault condition is removed						
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed						
Over Voltage	13.8 ~ 16V	17.5 ~ 21V	22.8 ~ 25V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V
	Protection type : Shut down o/p voltage, re-power on to recover						
Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down						
<b>ENVIRONMENT</b>							
Working Temp.	-30 ~ +50°C (Refer to «Derating Curve»)						
Working Humidity	20 ~ 95% RH non-condensing						
Storage Temp. Humidity	-40 ~ +80°C, 10 ~ 95% RH						
Temp. Coefficient	±0.03% / °C (0 ~ 50°C)						
Vibration	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes						
<b>Safety Standards</b>							
	UL1310, TUV EN61347-1, EN61347-2-13, GB19510.14, GB19510.1, CAN/CSA C22.2 No. 223-M91 (except for 48V), J61347-1, J61347-2-13 approved						
Withstand Voltage	I/P-O/P : 3.75KVAC I/P-FG : 2KVAC O/P-FG : 0.5KVAC						
Isolation Resistance	I/P-O/P : 100M Ohms / 500VDC / 25°C / 70% RH						
EMC Emission	Compliance to EN55015, GB17743, GB17625.1, EN61000-3-2 Class C ( 75% load) ; EN61000-3-3						
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,EN61547, light industry level, criteria A						
<b>OTHERS</b>							
MTBF	515Khrs min. MIL-HDBK-217F (25°C)						
Dimension	181.5*62*35mm (L*W*H)						
Packing	0.41Kg; 30pcs / 13.3Kg / 0.67CUFT						

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