

SWITCHING 04151A



INPUT VOLTAGE AC 100-240 V
CASE SIZE 67x29x72 mm
WEIGHT 180 g

20W

To meet ETL-UL1950,CETL-C22.2 NO.950,GS-DIN EN60950

SCHEDA TECNICA SWITCHING 04151A

Rated output (V)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Rated current (A)	3.0	2.6	2.3	2.1	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.13	1.06	1.0	0.98	0.94	0.9	0.88	0.85	0.83
Max. output voltage (V)	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5
Min. output voltage (V)	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5
Ripple & noise (mV)	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
Over load current (A)	>4	>3.8	>3.5	>3.3	>3.1	>2.9	>2.8	>2.7	>2.5	>2.4	>2.3	>2.2	>2.1	>2.0	>1.9	>1.8	>1.7	>1.6	>1.5	>1.5
Over heat protection	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Rated power (W)	15	15	16.1	16.8	17.1	17	17.6	18	18.2	18.2	18	18.08	18.02	18	18.62	18.8	18.9	19.36	19.55	19.92
Switch frequency (KHZ)	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Insulation class	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
Consumes (W)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Efficiency (%)	>76.42	>76.42	>79.71	>79.98	>80.09	>80.05	>80.27	>80.41	>80.48	>80.48	>80.41	>80.44	>80.42	>80.41	>80.63	>80.69	>80.72	>80.87	>80.93	>81.05
Efficiency Level	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V

SWITCHING 04151A

ENVIRONMENTAL REQUIREMENTS

Operating temperature	: 0°C -- 40°C
Storage temperature	: -25°C -- +85°C
Operating humidity	: 30% -- 95%
Storage humidity	: 30% -- 98%
Operating bar	: 1BAR

INPUT REQUIREMENTS

Regular input voltage	: AC 100 – AC 240V
Variable input voltage range	: AC 90V – AC 264V
Rating frequency	: 50Hz – 60Hz
Frequency range	: 47Hz – 63Hz
Input current	: 0.45 Arms MAX (at regular voltage & current)

INTRODUCTION

The S.M.P.S. Particular design for 2-pin multi-plug
The S.M.P.S. A variety of efficiency work mode for saving power
The S.M.P.S. Overcurrent, overload, overheat, undervoltage protection
The S.M.P.S. Advanced dithering switch work mode, reduce electromagnetic interference
The S.M.P.S. Overshock resistance switch circuit design, prevent device from instant implus damage
The S.M.P.S. Design with environment friendly materials, safe and healthy
The S.M.P.S. operated at input regular voltage AC 100V – 240V
The S.M.P.S. should be capable of a total continuous DC power output of 20 Watts
The S.M.P.S. should be capable of a total peak 25 Watts
The S.M.P.S. designed a energy saving to meet Europe energy star standard
The S.M.P.S. should be able to single output only. Refer output rated and electrical specifications table
The S.M.P.S. will shut down automatically when the AC input voltage lower than AC 90V
The S.M.P.S. output voltage will drop to very low when overload by overload protection
The S.M.P.S. should not be fired or emitted smoke by protection when the circuit is short
The S.M.P.S. can be changeable output voltage by changeable slot

DC INSULATION RESISTANCE

Input – Output	: 50M OHM minimum (at 500VDC)
Input – Body metal	: 50M OHM minimum (at 500VDC)

DIELECTRIC WITHSTAND – VOLTAGE

Input – Output	: 3750VAC minimum (2s)
Input – Body metal	: 3750VAC minimum (2s)

MAIN FUSE

Input fuse is 2.5A 250V

INRUSH CURRENT

Peak inrush current shall be limited to 30A for a cold start

TIME SEQUENCE

Time sequence should be satisfied to power ON/OFF, restart in power failure
AC switch at ON/OFF

EFFICIENCY

The efficiency of the S.M.P.S. must be satisfied the maximum
84%

SAFETY STANDARD

To meet ETL-UL1950,CETL-C22.2 NO.950,GS-DIN EN60950
AS/NZS 4665.1 :2005, EuP 2005/32/EC

RFI EMISSION

EN55022: 2006+A1
EN61000-3-2: 2000
EN61000-3-3: 1995+A1
EN55024: 1998+A1+A2
FCC PART 15

