



Powersolve Electronics Ltd

9 The Paddock • Hambridge Road • Newbury • Berkshire • RG14 5TQ • England

Tel: +44 (0)1635 521858 • Fax: +44 (0)1635 523771

80W (Pk) Desktop Type Switching Power Supplies For I.T.E. ENERGY STAR COMPLIANT

Description:

The PSE68 series of AC/AD switching mode power supplies provide 60Watts of continuous output power, with 80W peak. All supplies are UL94V-0 compliant, include IEC-320-C14 input for worldwide applications, All models meet FCC-Part-15 class B and CISPR-22 class B emission limits and are designed to comply with UL, c-UL, TUV and CE requirements. All units are 100% burned in and tested. And



Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- CEC and Energy Star Compliant
- Approved as a limited power source
- IEC-320-C14 Input Inlet
- Output Voltage Available from 3VDC through 48VDC
- Optional Output Connectors (See Appendix)
- Single Output
- Splash Proof
- One Year Warranty

ELECTRICAL CHARACTERISTICS:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _{in}	Input Voltage	-	90	-	260	VAC
F _{in}	Input Frequency	-	47	-	63	Hz
W _o	Output Power Range	V _{in} = 90 to 264 VAC	0	-	80	W
V _o	Output Voltage Range	-	See Rating Chart			V
I _o	Output Current Range	-	See Rating Chart			A
I _{il}	Input Current (Low Line)	I _o =Full Load, V _{in} =115VAC	-	-	1.9	A
I _{ih}	Input Current (High Line)	I _o =Full Load, V _{in} =230VAC	-	-	1.5	A
I _{rl}	Low Line Inrush Current	I _o =Full Load, 25°C, Cool Start, V _{in} =115VAC	-	12	15	A
I _{rh}	High Line Inrush Current	I _o =Full Load, 25°C, Cool Start, V _{in} =230VAC	-	26	30	A
E _{ff}	Efficiency	I _o =Full Load, V _{in} =230VAC	75	83	88	%
REG-i	Line Regulation	I _o =Full Load	-	0.5	1	%
REG-o	Load Regulation	V _{in} =230VAC	-	3	5	%
OVP	Over Voltage Protection	-	112	-	132	%
OCP	Over Current Protection	-	110	-	150	%
T _{tr}	Transient Response	I _o =Full Load to Half Load, V _{in} =100VAC	-	-	4	mS
T _{hold}	Hold-Up Time	I _o =Full Load, V _{in} =100VAC	16	-	-	mS
T _s	Start Up Time	I _o =Full Load, V _{in} =100VAC	0.3	1	2	S
V _{rn}	-	Full Load, V _{in} =240VAC	-	0.5	1	%
I _{lk}	Safety Ground Leakage Current	I _o =Full Load, V _{in} =240VAC	-	0.5	0.75	mA
T _c	Temperature Coefficient	All Output	-0.04	-	0.04	%/°C

Environmental:

Sym	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
T _{oper}	Operating Temperature		0	-	70	°C
T _{stg}	Storage Temperature		- 40	-	85	°C
H _r	Relative Humidity		5	-	95	%
P _d	Derated From 100% at + 50°C Linearly to 50% at 70°C					

Safety Specifications

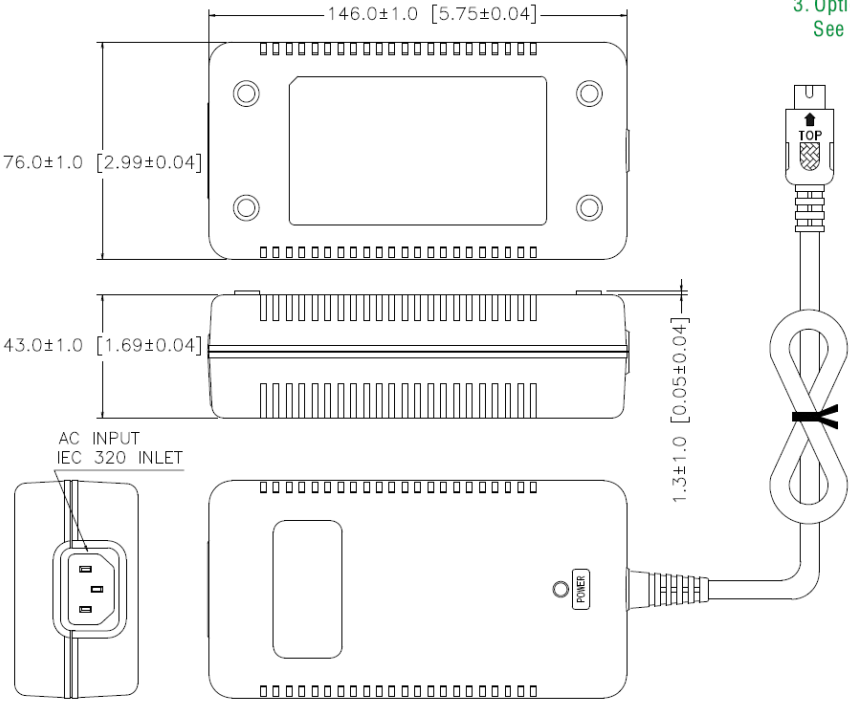
Sym	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{ps}	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242	-	-	VDC
V _{pg}	Dielectric Withstanding Voltage for Primary to ground	Primary to ground	2121	-	-	VDC
R _i	Isolation Resistance	Test Voltage = 500VDC	50	-	-	M ohm
C _{ispr}	EMI requirements for CISPR-22	V _{in} =220VAC	B	-	-	CLASS

OUTPUT VOLTAGE AND CURRENT OUTPUT (Single Output):

Model Number	Output Voltage	Output Current	Output Current peak	Maximum Output Power
PSE68-12	12VDC	5.0A	6.66A	80Wpk
PSE65-24	24V	2.5A	3.33A	80Wpk

Fcc	EMI requirements for CISPR-15	Vin=110VAC	B	-	-	CLASS
-----	-------------------------------	------------	---	---	---	-------

Mechanical Specifications :



- Note:
- 1. Dimensions are shown in mm.
 - 2. Weight: 275gs approx.
 - 3. Optional output connector: See page Appendix.