



SPECIFICATION

For

SWITCHING POWER ADAPTER

M/N: MPE-CG36 Series

Revision history

REV.	DATE	DESCRIPTION
	Feb. 2 nd 2012	CEC level V compliant.



RoHS

FEATURES

- Universal AC input 90-264VAC
- CEC Level V compliant
- EN 55022 / CISPR22 and FCC Part 15 Class B
- Leakage current 0.25mA

1. Description

MPE-CG36 series are families of single output, 20-36W AC/DC desktop switching mode adapters, and it meets CEC level V.

Model	Output Voltage	Mini. Output Current	Rated Output Current	Line ^(Note 1) Regulation	Load ^(Note 2) Regulation	Voltage Setting ^(Note 3)	Ripple & Noise p-p ^(Note 4)	Efficiency
MPE-CG36-05	+5V	0A	4A	±1%	±6%	±2%	1%	73%
MPE-CG36-09	+9V	0A	3A	±1%	±5%	±2%	1%	77%
MPE-CG36-12	+12V	0A	2.5A	±1%	±5%	±2%	1%	78%
MPE-CG36-135	+13.5V	0A	2.4A	±1%	±5%	±2%	1%	80%
MPE-CG36-15	+15V	0A	2.4A	±1%	±3%	±2%	1%	80%
MPE-CG36-18	+18V	0A	2A	±1%	±2%	±2%	1%	81%
MPE-CG36-24	+24V	0A	1.5A	±1%	±2%	±2%	1%	81%
MPE-CG36-48	+48V	0A	0.75A	±1%	±2%	±2%	1%	83%

- Note: 1) Line regulation measured from 100VAC to 240VAC, full load.
 2) Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% full load)
 3) Voltage set point at 60% load
 4) Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measurement at 20MHz BW.

2. Input Specification

Parameter	Conditions/Description	Min.	Nom.	Max.	Units
Input Voltage-AC	Continuous input range.	90	115/230	264	VAC
Input Frequency	AC input.	47	50/60	63	Hz
Hold Up Time	Nominal AC Input Voltage (115VAC), rated load.		8		ms
Inrush Current	Input Voltage (264VAC), one cycle at 25°C.			60	A

3. Output Specification

Parameter	Conditions/Description	Min.	Nom.	Max.	Units
Efficiency	Measuring at nominal line and rated load.	See Chart of Description			
Minimum load		See Chart of Description			
Ripple & Noise	Rated load, 20MHz bandwidth	See Chart of Description			
Output Power	Continuous output power.	See Chart of Description			
Line Regulation	Measured from 100VAC to 240VAC, full load	See Chart of Description			
Load Regulation	Measured from 60% to 100% full load and from 60% to 20% load(60% +/- 40% full load)	See Chart of Description			



4. Internal Protection

Parameter	Conditions/Description
Over Load Protection	Fully protected against output overload and short circuit.
Short Circuit Protection	Continuous

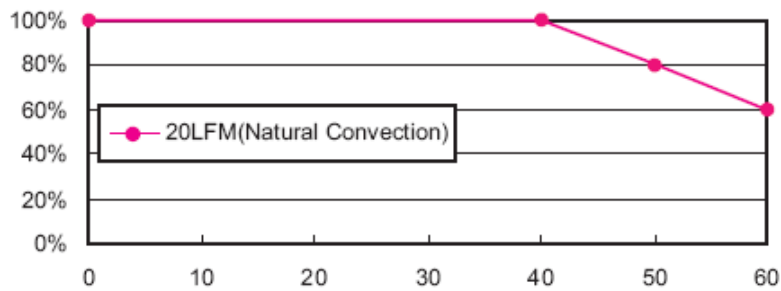
5. Safety Approvals, EMI and EMS Specification

Parameter	Conditions/Description	Min.	Nom.	Max.	Units
Safety	UL, cUL 60950-1		Approved		
Hi-Pot	Input to output	4242			VDC
Hold Up Time	Nominal AC Input Voltage (115VAC), rated load.	8			mS
Radiation	EN 55022 / CISPR 22 & FCC Part 15	B			
Conduction	EN 55022 / CISPR 22 & FCC Part 15	B			Class
EMS	IEC 61000-4-2, 8KV air discharge and 6KV contact discharge	3			
	IEC 61000-4-3, 3V/M	3			
	IEC 61000-4-4, 2KV line & PE	3			
	IEC 61000-4-5, 2KV	3			Level
	IEC 61000-4-6, 10V	3			
	IEC 61000-4-8, 10A/M	3			
	IEC 61000-4-11				

6. Environment Specification


Parameter	Conditions/Description	Min.	Nom.	Max.	Units
Operating Temperature	Linear derating from 40 degree C	0		60	°C
Storage Temperature		-20		85	°C
Relative Humidity	Non-condensing.	5		95	%RH

Derating Curve





7. Mechanical

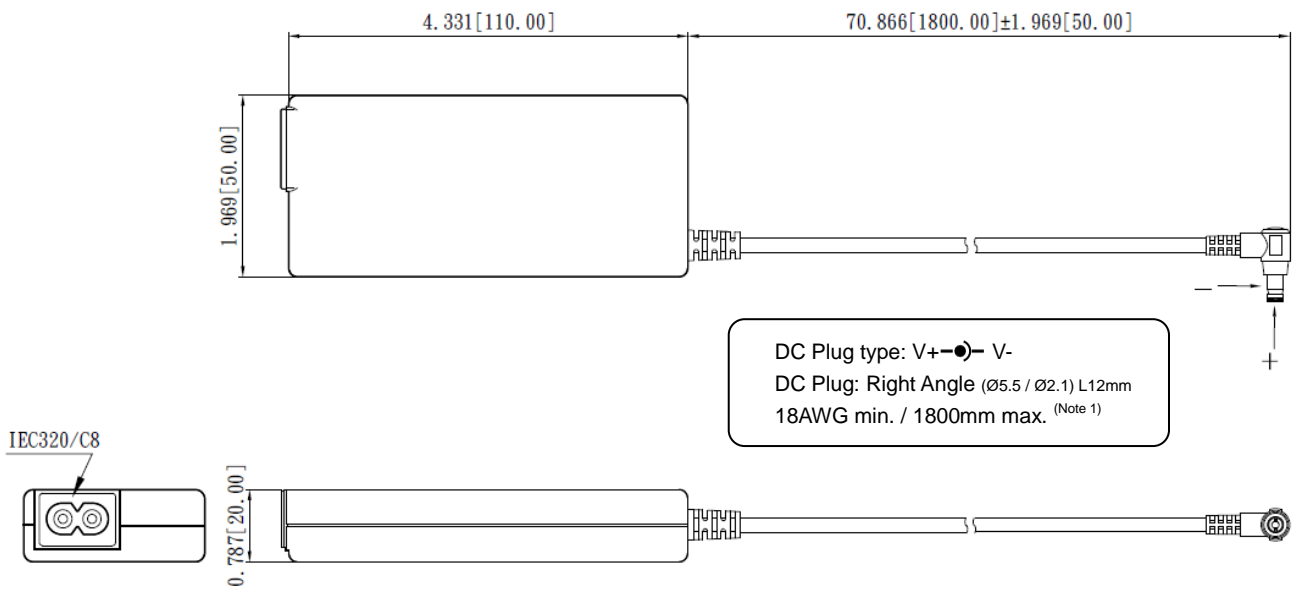
Parameter	Conditions/Description
Dimension	110 x 50 x 20 mm, Tolerance +/- 0.5mm.
AC Input Connector	IEC-320/C8 (2 Pin)
DC Plug ^(Note 2)	V+  V-, right angle, (Ø5.5 / Ø2.1) L12mm
Output Cable ^(Note 2)	18AWG min. / 1800mm max. ^(Note 1)

◆Mechanical drawing

All dimensions are in inches(mm)

Tolerance: Inches: X.XXX±0.02

mm: X.XX±0.5



Note: 1) Except MPE-CG36-09 is 18AWG min. / 1220mm max.; MPE-CG36-05 is 18AWG min. / UL 2464 / 720mm max..

2) Customized output connector and cable are available, please feel free to contact us.