

GPSU12-X-USB 5VDC @2.4A USB Charger DoE (VI) & EU ErP / CoC (5)

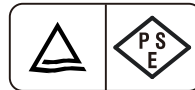
Plug-in power supply

Features:

- Universal input voltage
- Meet EISA 2007 / DoE (VI) & EU ErP / CoC (5)
- Standard USB (Type A) connector
- Option D+/D-define
- Single output
- Optional output connectors
- Short circuit protection
- Over voltage protection
- Over current protection
- Low leakage current <0.25mA
- One year limited warranty



SAFETY AGENCY APPROVALS



Specifications:	GPSU12-X-USB Series:
Input voltage	100 ~ 240 VAC
Input frequency	47 ~ 63Hz
Input current	0.5A Max.
Leakage current	0.25mA at 240 VAC / 50Hz
Output voltage	See rating chart
Output current	See rating chart
Output power range	See rating chart
Ripple	See rating chart
Over voltage protection	Yes. by zener.
Over current protection	Yes. Auto - recovery.
Short circuit protection	Yes. Auto - recovery.
Temperature coefficient	All output $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500u/sec after a 25% step load change
Operation temperature	0°C~+40°C. See derating curve
Storage temperature	-40°C~+85°C
Relative humidity	5% to 95% non-condensing
Derating	Derated from 100% at +40°C linearly to 50% at 70°C
Avg.Efficiency	See rating chart
Startup / Hold up / Rise time	Typical : 3000mS / 10mS / 50mS at full load.
Line regulation	$\pm 1\%$ maximum for any input voltage change between input voltage range
Load regulation	$\pm 5\%$ variations from minimum to maximum output current .
Insulation resistance	50Mohm minimum from input to output
Inrush current	30 AMPS @ 115 VAC ; 60 AMPS @ 230 VAC at 25°C cold start
Withstand voltage	4242VDC from input to output
Mean time between failure	100,000 hours minimum at full load at 25°C ambient
EMI requirements	(A)CE : Emission : EN55022 ; EN61000-3-2,3 / Immunity: IEC61000-4-2,3,4,5,6,11 (B)FCC 47 CFR Part 15 Subpart B.
Safety requirements	(A) UL60950-1 ; CSA C22.2 (B) EN60950-1 (C) IEC60950-1 (D) J60950-1
Warranty	1 year

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FIG 1(UL)

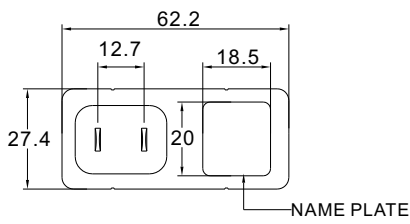
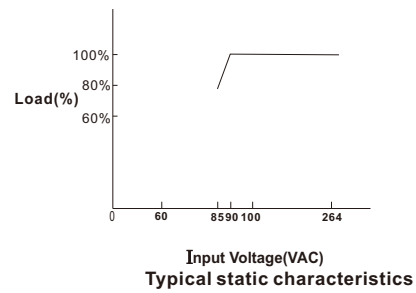
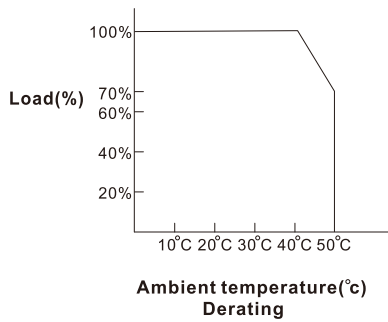
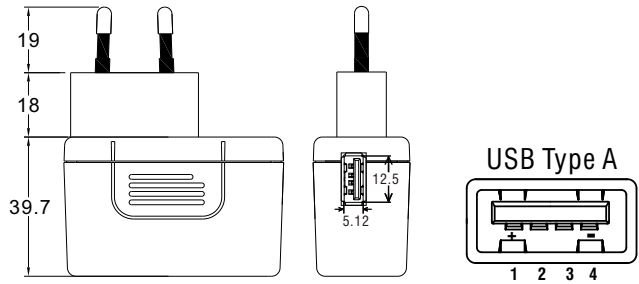
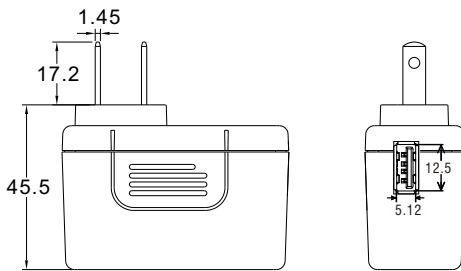
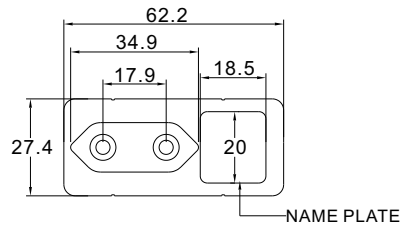


FIG 2(TUV)



U: (American type FIG 1)

Model name	Output Voltage(VDC)	Output Current(A)	Max.Output power(W)	Ripple.(mV) max.	Line Regulation(%)	Load Regulation(%)	Avg.Eff.(%)		No load Power Consumption(W)	Measured at the output of
							DoE (VI)	CoC (5)		
GPSU12U-1-USB	5~6	2.40~2.00	12	100	±1	±5	>79.94	>80.30	<0.075	5
GPSU12U-1-1-USB	6~8	2.00~1.50	12	100	±1	±5	>83.1	>83.26	<0.075	7.5
GPSU12U-2-USB	8~11	1.50~1.10	12.10	100	±1	±5	>83.1	>83.40	<0.075	9
GPSU12U-3-USB	11~13	1.10~0.93	12.10	100	±1	±3	>83.1	>83.40	<0.075	12
GPSU12U-4-USB	13~16	0.93~0.75	12.09	100	±1	±3	>83.1	>83.40	<0.075	15
GPSU12U-5-USB	16~21	0.75~0.58	12.18	100	±1	±3	>83.1	>83.40	<0.075	18
GPSU12U-6-USB	21~27	0.58~0.45	12.18	100	±1	±2	>83.1	>83.40	<0.075	24
GPSU12U-7-USB	27~33	0.45~0.37	12.15	100	±1	±2	>83.1	>83.40	<0.075	28
GPSU12U-8-USB	33~48	0.37~0.25	12.21	100	±1	±2	>83.1	>83.40	<0.075	48

E: (European type FIG 2)

Model name	Output Voltage(VDC)	Output Current(A)	Max.Output power(W)	Ripple.(mV) max.	Line Regulation(%)	Load Regulation(%)	Avg.Eff.(%)		No load Power Consumption(W)	Measured at the output of
							DoE (VI)	CoC (5)		
GPSU12E-1-USB	5~6	2.40~2.00	12	100	±1	±5	>79.94	>80.30	<0.075	5

Note:

1.Weight: Approx 60~70gs

2.Avg. Eff.(%): Averages the efficiency at 25, 50, 75, and 100 % of max. rated output current.