

EPA05 SERIES



5W EXTERNAL

DIMENSIONS:



US: 2.20 x 1.69 x 2.32" (56 x 43 x 59mm)
 EU: 2.20 x 1.10 x 3.11" (56 x 28 x 79mm)
 UK: 2.20 x 1.93 x 2.80" (56 x 49 x 71mm)
 AU: 2.20 x 1.61 x 2.68" (56 x 41 x 68mm)

LEVEL VI EFFICIENCY

CONNECTOR
CUSTOMISATION

EN55032 LEVEL B

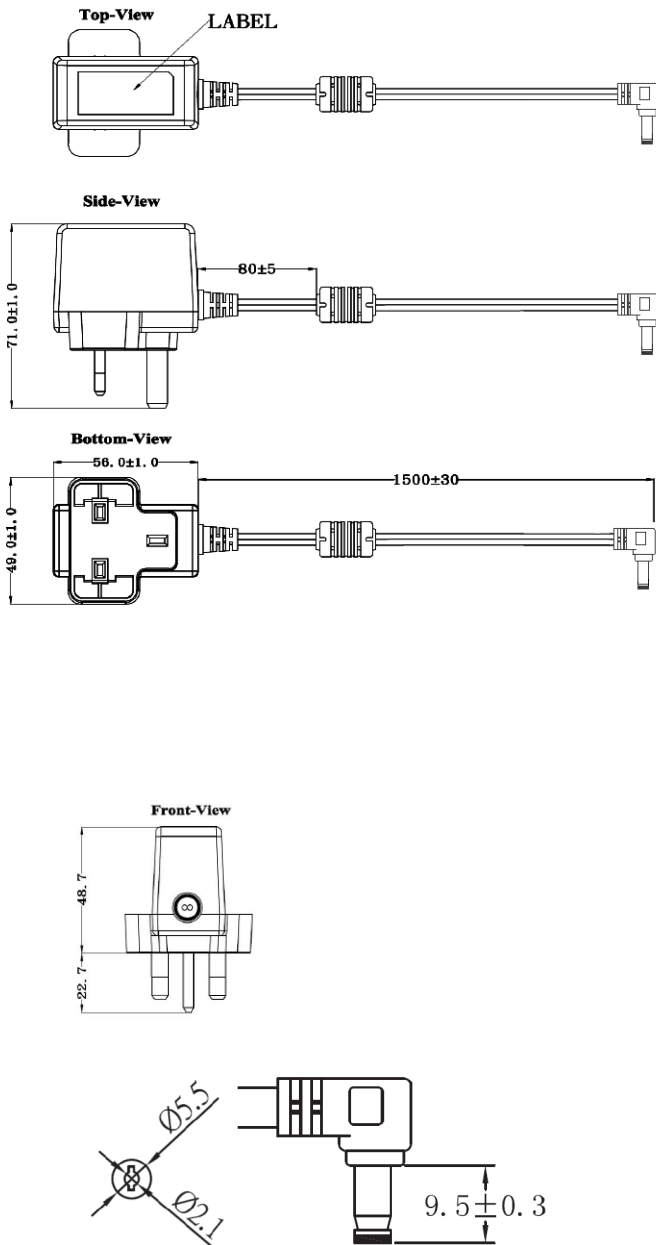
Part numbers

EPA	05	12	-	UK
Series	Power (W)	Output voltage		Options
		03 = 3.3VDC 05 = 5.0VDC 07 = 7.5VDC 09 = 9.0VDC 12 = 12VDC 15 = 15VDC 18 = 18VDC 24 = 24VDC		-UK -US -EU -AU

Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	UL/IEC/EN 62368-1	<78.5%	Operational: 0 to 60°C

Mechanical



Notes

1. All dimensions in mm
2. Output connector : 2.1 / 5.5 / 9.5mm tuning fork style
3. UL2468 AWG20 5V units only & AWG22 for 3V & 7V-24V units

Weight

UK	US	EU	AU
100g	82g	96g	94g



Models & Ratings

Model Number ⁽¹⁾	Output Power	Output voltage	Output current
EPA0503-UK	4.95W	3.3V	1.5A
EPA0505-UK	5.00W	5.0V	1.0A
EPA0507-UK	7.50W	7.5V	1.0A
EPA0509-UK	6.03W	9.0V	0.67A
EPA0512-UK	7.20W	12V	0.6A
EPA0515-UK	7.50W	15V	0.5A
EPA0518-UK	5.94W	18V	0.33A
EPA0524-UK	6.00W	24V	0.25A

1. For US plug -US, EU plug -EU, AU plug -AU
2. Alternative output connectors available for production quantities. Contact sales for details.
3. 1.5A 5V & 5.9V units available. Please contact sales for details



Input

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Input voltage	90		264	VAC	No derating
Input frequency	47		63	Hz	
Power factor					EN61000-3-2 class A compliant
Input current (rms)			0.19	A	
Inrush current			60	A	High line. Full load, 25°C cool start, Vin=240VAC
No load input power			0.075	W	230VAC



Output

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Output voltage	3.3		24	VDC	Other output options available
Total regulation		±6		%	
Minimum load	0			%	
Transient response		0.5		mS	50% load change
Ripple & noise		2		%Vp-p	All models measured with 10uF and 0.1uf capacitor. 20 MHz bandwidth
Hold up time	10			mS	At full load

Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload			400	%	Automatic recovery
Short circuit					Automatic recovery
Over voltage protection			180	%	Latch off reset

Safety

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Safety standards	UL/IEC/EN 62368-1				
Isolation	Input to Output: 3000			VAC	For 1 minute
Insulation resistance		10		MOhm	500Vdc input to output and output to ground
Power density	0.42		0.87	W/In3	

EMC: Emissions

	Standard	Test level	Criteria	Notes/Conditions
Conducted	EN55032	B		
Radiated	EN55032	B		
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

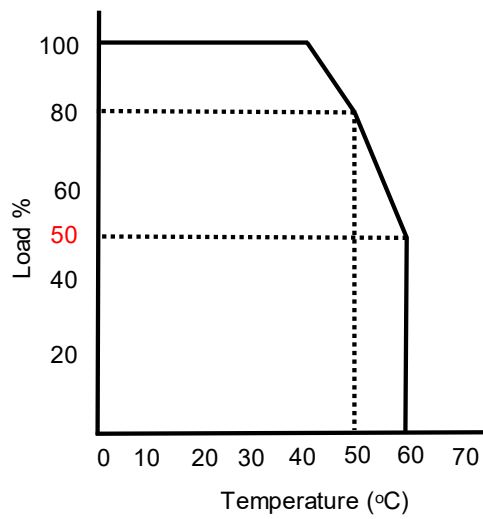
EMC: Immunity

	Standard	Test level	Criteria	Notes/Conditions
ESD	EN61000-4-2	2, 3	A	Contact: 4kV, Air: 8kV
Radiated	EN61000-4-3	2	A	3V/m, 80MHz-1000MHz, 1kHz 80% AM Modulation
EFT	EN61000-4-4	2	A	1kV
Surges	EN61000-4-5	Installation class 3	A	2 kV Line/Neutral to PE, 1kV Line to Neutral both at 0°, 90°,180°,270°
Conducted	EN61000-4-6	2	A	3Vrms, 1kHz 80% AM Modulation 150kHz-80MHz
PFMF	EN61000-4-8	1	A	1A/m
Dips and interruptions	EN61000-4-11	Interrupt 250, 300 cycles, 95% for 0.5/0.6 cycles, 30% for 25/30 cycles B,A,A		

Environmental

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Operating temperature	-0		60	°C	See derating curve below
Storage temperature	-20		80	°C	
Cooling					Convection cooled
Operating humidity	20		80	% RH	
Storage humidity	10		90	% RH	
MTBF	300			kHrs	As per Telcordia SR-332

Derating curve



8th February 2024