



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SERIES: 18 W MULTI-BLADE

DESCRIPTION: SWITCHING POWER SUPPLY

FEATURES

- universal AC input
- regulated output voltage
- interchangeable input blade
- short circuit, over load protection
- meets EISA / efficiency level IV regulations
- custom designs available



MODEL	output voltage		output current		output wattage	ripple*	efficiency level	cord length (mm)
	nominal (V dc)		min (A)	max (A)	max (W)	max. (mVp-p)		
EMS050320	5		0	3.2	16	150	IV	1000 +150/-0
EMS060300	6		0	3	18	150	IV	1000 ±100
EMS070257	7		0	2.57	19.25	150	IV	1830 +150/-0
EMS090200	9		0	2	18	150	IV	1830 +150/-0
EMS120150	12		0	1.5	18	150	IV	1830 +150/-0
EMS150120	15		0	1.2	18	150	V	1830 +150/-0
EMS180100	18		0	1	18	150	V	1830 +150/-0
EMS200090	20		0	0.9	18	150	IV	1830 +150/-0
EMS240075	24		0	0.75	18	240	V	1830 +150/-0

*at full load, 100 ~ 240 V ac input, measured at 20MHz bandwidth with a 10 uF electrolytic cap and a 0.1 uF ceramic cap on the output

PART NUMBER KEY

EMS050320 - XX - SZ - CXX

Base Number
example of 5 V dc, 3.2 A

DC Plug type:
see output plug options
on page 5

Factory
Designation

Reserved for custom
configurations



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INPUT

parameter	conditions/description	min	nom	max	units
rated input voltage		100		240	V ac
input voltage range		90		264	V ac
rated frequency		50		60	Hz
frequency range		47		63	Hz
rated input current				0.6	A
inrush current	115 V ac, full load, cold start, 25°C 230 V ac, full load, cold start, 25°C			30 60	A A
no load power consumption	100 ~ 240 V ac input			0.3	W

OUTPUT

parameter	conditions/description	min	nom	max	units
line regulation			±1		%
load regulation			±6		%
over voltage protection	output shut down	110%		140%	V dc
short circuit protection	output shut down and auto-restart				

SAFETY & EMI

parameter	conditions/description	min	nom	max	units
HI-POT	input to output at 10 mA for 1 minute			3000 4242	V ac V dc
insulation resistance	input to output at 500 V dc	100			MΩ
safety approvals	UL/cUL, CB (IEC60950-1), CE (GS/TUV EN60950-1)				
EMI standard	FCC part 15 class B, CE (EN55022, EN55024)				
leakage current				0.25	mA
RoHS compliant	yes				
LPS power supply	yes				

ENVIRONMENTAL

parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
operating humidity		20		80	%
storage temperature		-10		70	°C
storage humidity		10		90	%

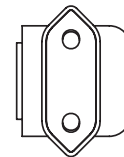
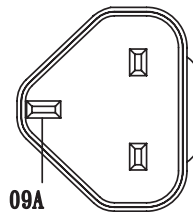
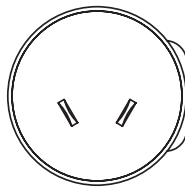
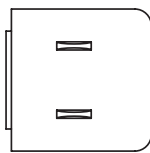
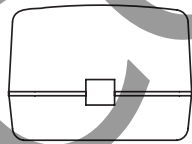
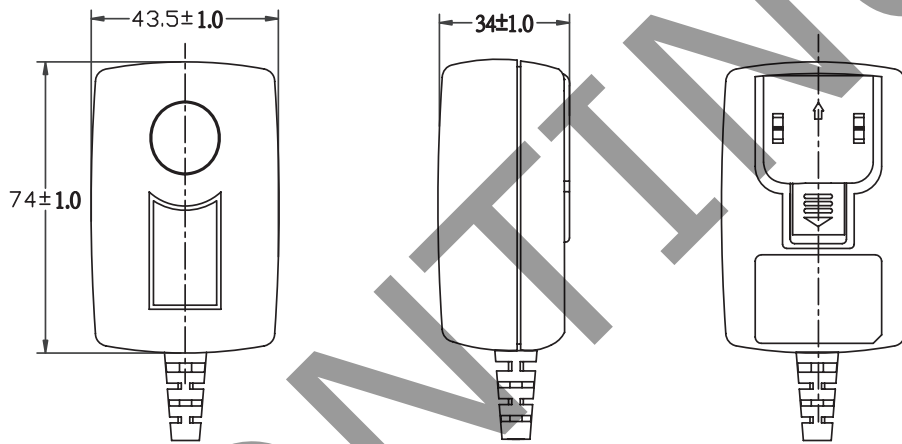


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DESCRIPTION: SWITCHING POWER SUPPLY

MECHANICAL DRAWING

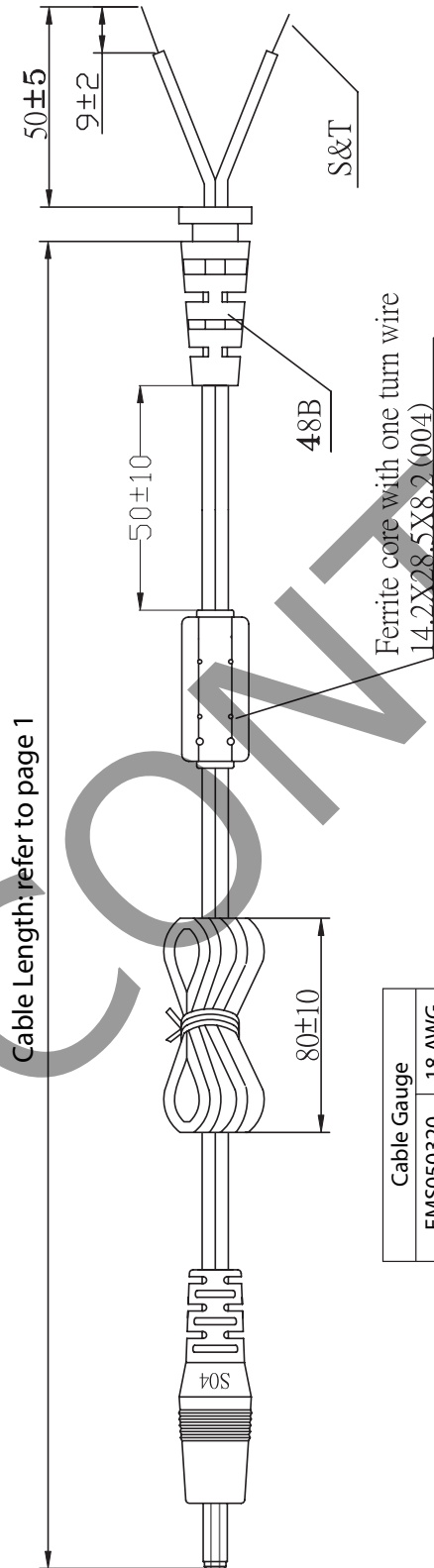
input plug	interchangeable input blade (UL, UK, VDE, SAA)
case size	74 L x 43.5 W x 34 H mm tolerance: ± 1 mm



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DC CORD



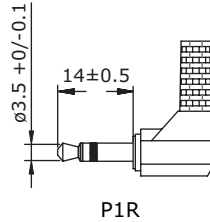
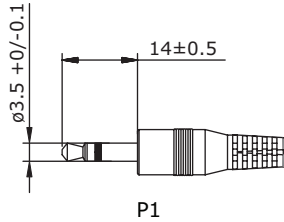
Cable Gauge	
EMS050320	18 AWG
EMS060300	18 AWG
EMS070257	18 AWG
EMS090200	18 AWG
EMS120150	20 AWG
EMS150120	20 AWG
EMS180100	20 AWG
EMS200090	20 AWG
EMS240075	20 AWG

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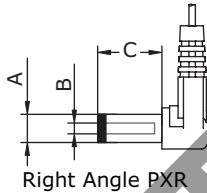
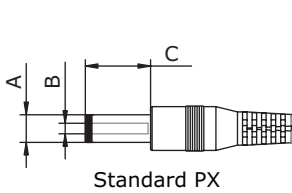
OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



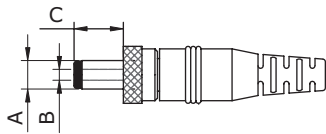
*Tip positive

Standard DC Plug



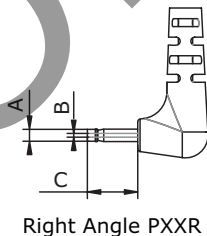
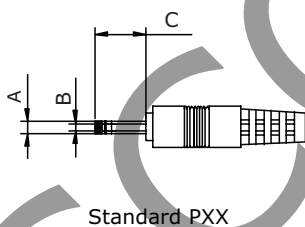
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

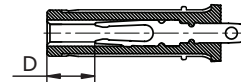


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

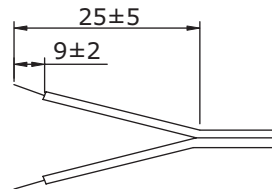
EIAJ Plugs



	EIAJ	A	B	C	D	Unit
P12/P12R	EIAJ-1	2.35	0.7	9.5	NA	mm
P13/P13R	EIAJ-2	4.0	1.7	9.5	5.0	mm
P14/P14R	EIAJ-3	4.75	1.7	9.5	5.0	mm



Stripped and Tinned

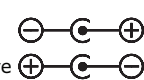


DC PLUG TYPE

ST
Stripped and Tinned

PXXXX

Plug Type Plug Angle: "Blank" = Standard Plug Polarity: "Blank" = N/A
R = Right Angle P = Center Positive N = Center Negative



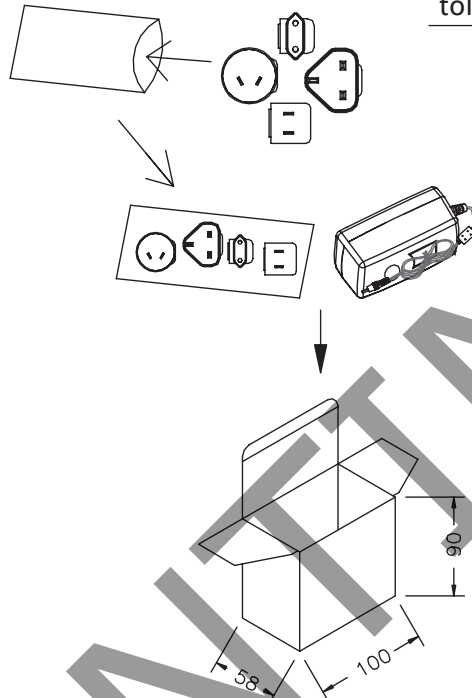
*Contact CUI for additional output plug options.
*Contact CUI for additional output plug options.



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INDIVIDUAL PACKAGING



tolerance ± 1 mm

PACKAGING

tolerance $+7 / -0$ mm

CARTON SIZE: 485X428X210mm
Q'TY: 60pcs(20x3x1)

