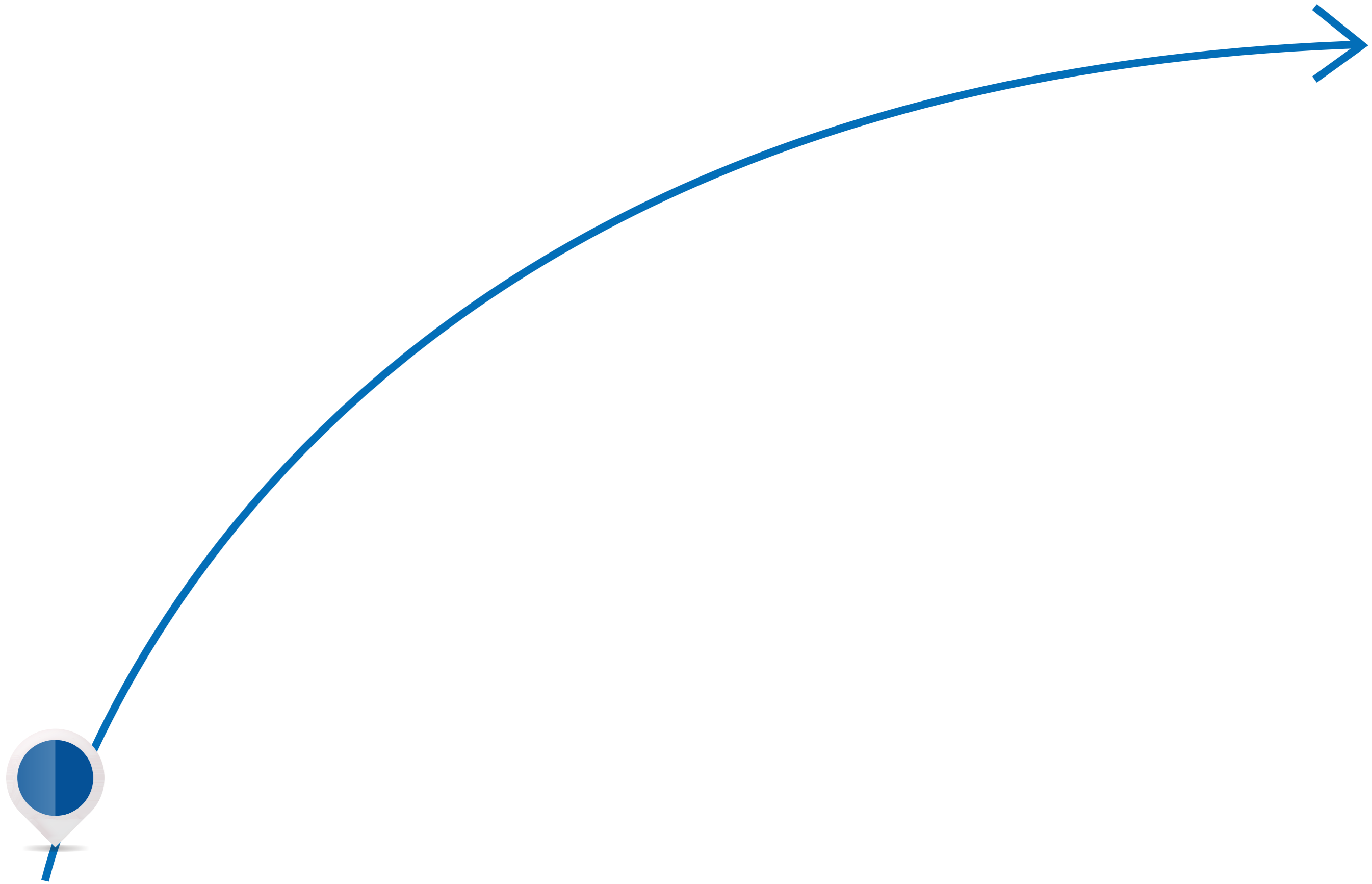


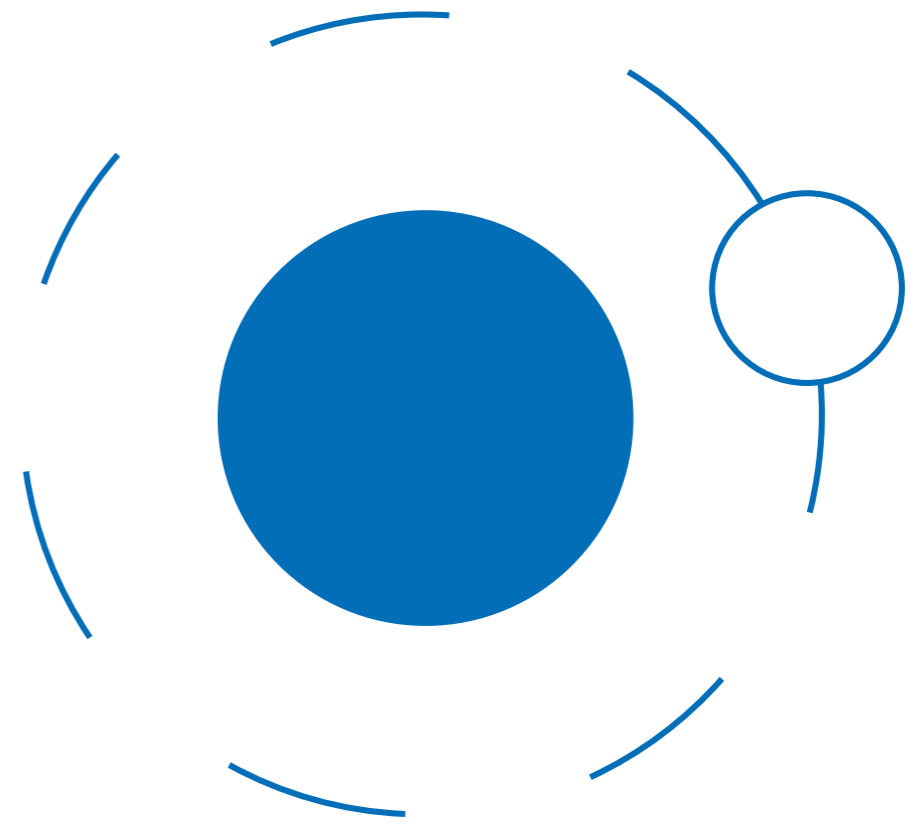




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- EB?

						mm)	
SPM30-SXX	30W	85-305Vac 100-370Vdc	12V/24V/28V/48V/50V	98*52*22	<b>RoHS CE REACH</b>	29	
SPM50-SXX	50W	85-305Vac 100-370Vdc	12V/24V/48V/50V	98*52*22	<b>RoHS CE REACH</b>	29	
SPM100-SXX	100W	90-264Vac 100-370Vdc	12V/15V/24V/48V	139*88*30	<b>RoHS CE REACH</b>	29	
SPM150-SXX	150W	90-264Vac 100-370Vdc	12V/15V/24V/48V				



- 37B

mm)	
RoHS 	38
REACH	
	38

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mm)						
DIM20-XXSY	20W	24 9-36 Vdc 48 18-72 Vdc	3.3V/5V/± 1.2V/± 15V/24V	50.8*40.6*10.16		49
DIM30-XXSY	30W	24 9-36 Vdc 48 18-72 Vdc	3.3V/5V/± 1.2V/± 15V/24V	50.8*40.6*10.16	RoHS CE	49

• E?

					mm)
SM25-SXXVR	25W	85-264Vac 100-370Vdc	5V/12V/24V/48V		78*51*28
SM35-SXXVR	35W	85-264Vac 100-370Vdc	5V/12V/24V/48V		99*82*30
SM50-SXXVR	50W	85-264Vac 100-370Vdc	5V/12V/24V/48V		104*82*30
SM60-SXX	60W	90-264Vac 100-370Vdc	3.3V/5V/9V/12V/15V/ 18V/24V/36V/48V		85*51*28
SM75-SXXVR	75W	90-264Vac 100-370Vdc	5V/12V/24V/48V		99*82*30
SM100-SXXVR	100W	90-264Vac 100-370Vdc	5V/12V/24V/36V/48V		104*82*30

E;B E83

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DEM10-110SXX	10W	40-160Vdc	3.3V/5V/12V/15V/24V	25.4*25.4*12.7		85
DEM20-110SXX	20W	40-160Vdc	3.3V/5V/12V/15V/24V	25.4*25.4*12.7	<b>RoHS CE REACH</b>	85
DGM20-110SXX	20W	40-160Vdc	3.3V/5V/12V/15V/24V	50.8*25.4*11.7	<b>RoHS CE REACH</b>	85
DM60-110SXX	60W	65-150Vdc	5V/9V/12V/15V/24V	85*58.5*34	<b>RoHS CE REE</b>	85

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AC(N) : AC(L) : -Vo : +Vo : Trim :  
 COM : ⏚ : +V(CAP) : -V(CAP) :  
 NC : No Pin :

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Vin : GND : +Vo : OV : -Vo :  
 DC(-Vin) : DC(+Vin) : Vadj : Ctrl : /  
 ON/OFF : / UVLO CS : )  
 Trim : NC : No Pin :  
 -Sense : +Sense :

• Ž

PD/PPS : USB SCP/FCP : QC : MTK PE :  
 PD/Apple : VOOC : VIVO B+ : B- :  
 Bat Low : AC OK : FG :

IN1 : AC1 FG : IN2 : AC2 OUT1 : AC1 OUT2 : AC2  
 No Pin :

★ LB %Ž I

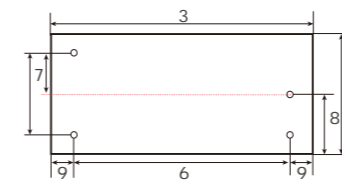
- 85-305VAC/100-400VDC
- 4000VAC
- 0.1W
- 100%



Model	Power	Input	Output	Pin
ZP03-S03	3W	85-305Vac 100-400Vdc	3.3V/0.6A	68
ZP03-S05			5V/0.6A	78
ZP03-S09			9V/0.33A	80
ZP03-S12			12V/0.25A	80
ZP03-S15			15V/0.2A	80
ZP03-S24			24V/0.12A	78
ZP03-S03R2	3W	85-305Vac 100-400Vdc	3.3V/0.6A	64
ZP03-S05R2			5V/0.6A	76
ZP03-S09R2			9V/0.33A	77
ZP03-S12R2			12V/0.25A	79
ZP03-S15R2			15V/0.2A	79
ZP03-S24R2			24V/0.125A	80
ZPA03-S05	3W	85-305Vac 100-400Vdc	5V/0.6A	75
ZPA03-S09			9V/0.33A	77

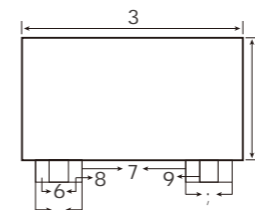
Model	Power	Input	Output	Pin
ZPA03-S12	3W	85-305Vac 100-400Vdc	12V/0.25A	79
ZPA03-S15			15V/0.2A	80
ZPA03-S24			24V/0.125A	81
ZPA05-S05			5W	85-305Vac 100-400Vdc
ZPA05-S09	9V/0.55A	77		
ZPA05-S12	12V/0.41A	79		
ZPA05-S15	15V/0.33A	80		
ZPA05-S24	24V/0.2A	81		
ZP05-S03	5W	85-264Vac 100-370Vdc	3.3V/1A	64
ZP05-S05			5V/1A	69
ZP05-S09			9V/0.55A	73
ZP05-S12			12V/0.41A	75
ZP05-S15			15V/0.33A	76
ZP05-S24			24V/0.21A	78

• ZP03/ZP03R2/ZP05



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±Hh
±h

• ZPA03/ZPA05



35
35
±Hh
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ZP03/ZP03R2	32.5	20.5	15.24	27.94	7.62	10.0	2.28	15.0	4	0.8
ZPA03/ZPA05	31.5	18.7	6	4.5	17.34	0.75	1.5	12.7	5.50	2.89
ZP05	51	25.5	20.32	45.72	10.16	12.75	2.5	15.5	4	1.0

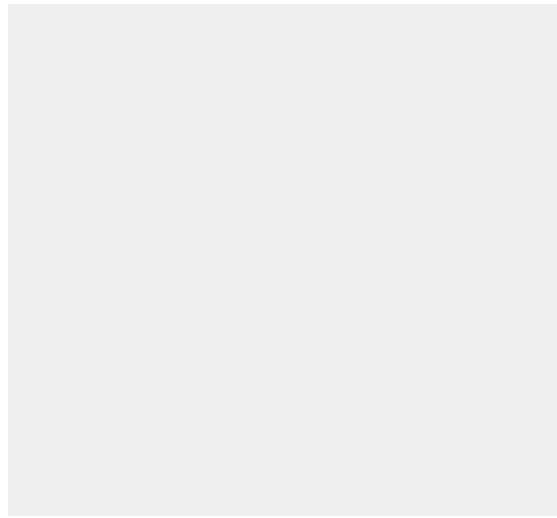
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★ LB &Z(I

- 85-305VAC/100-400VDC
- 
- 4000VAC
- 
- 
- 0.1W
- 
- 100%
- 

★ LB #" Ž "I

- 85-305VAC/100-400VDC
- 
- 4000VAC
- 
- 
- 0.1W
- 
- 100%
- 

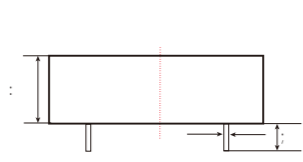


• ZPB04/ZPB05

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• ZP05R3

• ZP05R2/ZP06



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	t-Ha
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	t-Ha
	ž-h

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ZP05R3	25.4	25.4	5.08	5.08	20.32	20.32	4.1	17.6	0.6	/
ZP06	51	25.5	20.32	45.72	10.16	12.75	2.5	15.5	4	1

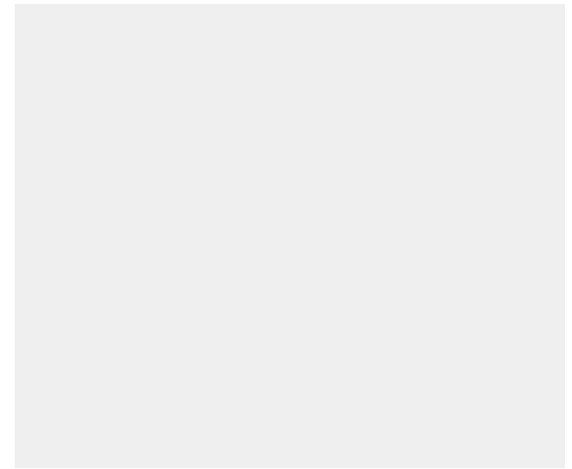
mm  
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+0.5mm

ZP20-S03R2	20W	85-264Vac 100-370Vdc	3.3V/3.5A	84
ZP20-S05R2			5V/3.5A	86
ZP20-S09R2			9V/2.2A	86
ZP20-S12R2			12V/1.66A	88
ZP20-S15R2			15V/1.33A	88
ZP20-S24R2	30W		24V/0.83A	88
ZP30-S09			9V/3.3A	80
ZP30-S12			12V/2.5A	85
ZP30-S15			15V/2A	86
ZP30-S24			24V/1.25A	88
ZP50-S05	50W	5V/5A	87	
ZP50-S09		9V/4A	87	
ZP50-S12		12V/4A	88	
ZP50-S15		15V/3.3A	88	
ZP50-S24		24V/2A	89	

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- 85-305VAC/100-400VDC
- EMC
- 4000VAC
- 0.1W
- 100%

DP06-S03			3.3V/1.2A	66
DP06-S05			5V/1.2A	76
DP06-S09			9V/0.66A	80
DP06-S12	6W		12V/0.5A	81
DP06-S15			15V/0.4A	82
DP06-S24			24V/0.25A	83
DP10-S03			3.3V/2A	66
DP10-S05			5V/2A	76
DP10-S09	10W		9V/1.05A	80
DP10-S12		85-305Vac 100-400Vdc	12V/0.9A	81
DP10-S15			15V/0.66A	82
DP10-S24			24V/0.42A	83
DP20-S05			5V/4A	85
DP20-S09			9V/2.22A	87
DP20-S12	20W		12V/1.66A	90
DP20-S15			15V/1.33	90
DP20-S24			24V/0.83	89
DP25-S12			12V/2.1	90
DP25-S15	25W		15V/1.66	90
DP25-S24			24/1.1	89



★ 37E #\$\$' I

- 85-305VAC/100-400VDC
- EMI EMC 4
- 4000VAC
- 
- 
- 100%
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★ 37E %' Ž+" I

- 85-305VAC/100-400VDC
- EMI EMC 4
- 4000VAC
- 
- 
- 100%
- 

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	30W			
AES45-S12	45W		15V/3A	88
AES45-S15			24V/1.9A	89
AES45-S24			48V/0.94A	90

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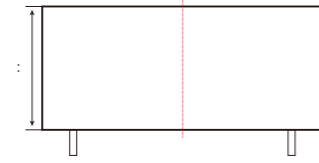
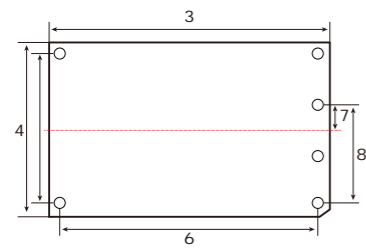


★ LBD # "Ž\$ " I

- 85-305VAC/100-400VDC
- EMI
- 4000VAC
- 0.1W
- 100%

		Ha!;afi . fi		
ZPR10-S05R2	10W	85-305Vac 100-400Vdc	5V/2A	76
ZPR10-S09R2			9V/1.05A	80
ZPR10-S12R2			12V/0.83A	81
ZPR10-S15R2			15V/0.66A	83
ZPR10-S24R2			24V/0.42A	84
ZPR15-S05	15W	85-305Vac 100-400Vdc	5V/3A	85
ZPR15-S09			9V/1.66A	85
ZPR15-S12			12V/1.25A	87
ZPR15-S15			15V/1A	88
ZPR15-S24			24V/0.62A	88

		Ha!;afi . fi		
ZPR15-S05R2	15W	85-305Vac 100-400Vdc	5V/3A	85
ZPR15-S09R2			9V/1.66A	86
ZPR15-S12R2			12V/1.25A	89
ZPR15-S15R2			15V/1A	90
ZPR15-S24R2			24V/0.62A	89
ZPR20-S05	20W	85-264Vac 100-370Vdc	5V/3.5A	85
ZPR20-S09			9V/2.22A	84
ZPR20-S12			12V/1.66A	87
ZPR20-S15			15V/1.33A	88
ZPR20-S24			24V/0.83A	89



6;?	3	4	6	7	8	9	:	;	>	
ZPR10R2	39	25	19.05	33.02	3.18	12.7	/	22	4	1
ZPR15/ZPR20	51	25.5	2.35	45	20.8	8	3	15.5	4	1

mm  
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+0.5mm

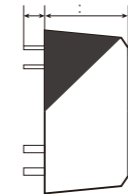
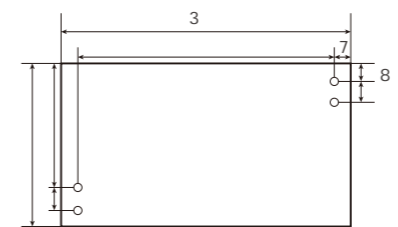
★ LBD % "Ž+ " I

- 85-305VAC/100-400VDC
- EMI
- 4000VAC
- 0.1W
- 100%

		Ha!;afi . fi		
ZPR30-S05	30W	85-264Vac 100-370Vdc	5V/6A	84
ZPR30-S12			12V/2.5A	87
ZPR30-S15			15V/2A	89
ZPR30-S24			24V/1.25A	90
ZPR45-S05	45W	85-305Vac 100-400Vdc	5V/9A	83
ZPR45-S09			9V/5A	87
ZPR45-S12			12V/3.75A	88
ZPR45-S15			15V/3A	89
ZPR45-S24			24V/1.87A	90

		Ha!;afi . fi		
ZPR60-S05	60W	90-305Vac 100-400Vdc	5V/12A	84
ZPR60-S09			9V/6.66A	87
ZPR60-S12			12V/5A	89
ZPR60-S15			15V/4A	90
ZPR60-S24	90W	90-305Vac 100-400Vdc	24V/2.5A	91
ZPR90-S12			12V/7.5A	92
ZPR90-S15			15V/6A	92
ZPR90-S24			24V/3.75A	93
ZPR90-S48			48V/1.87A	93

• ZPR30



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ZPR30	69.5	35	9	61.5	5.5	3.75	4	24	1	/	/	/
ZPR45/ZPR60/ZPR90	87	52	76	5.5	5.7	5	6.75	29.5	3.5	1	2	40.75

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★ : B # " Ž " |

- 85-305Vac50/60Hz
- 0.1W
- 30mV)
- EMC 4 EN61000-6-2 A
- 100%

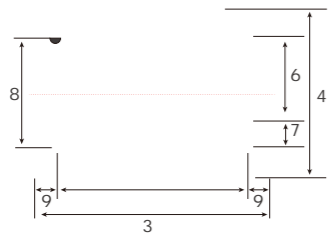


		Ha! : a fi	. fi
HP10-S03	10W	3.3V/2A	68
HP10-S05		5V/2A	77
HP10-S09		9V/1.05A	79
HP10-S12		12V/0.83A	82
HP10-S15		15V/0.66A	83
HP10-S24		24V/0.45A	84
HP20-S03	20W	3.3V/4A	74
HP20-S05		5V/4A	79
HP20-S09		9V/2.2A	81
HP20-S12		12V/1.66A	84
HP20-S15		15V/1.33A	85
HP20-S24		24V/0.83A	87
HP25-S03	25W	3.3V/5A	73
HP25-S05		5V/5A	79
HP25-S09		9V/2.7A	82



		Ha! : a fi	. fi
HP25-S12	25W	12V/2.08A	84
HP25-S15		15V/1.66A	85
HP25-S24	30W	24V/1.04A	87
HP30-S05		5V/5A	80
HP30-S12		12V/2.5A	88
HP30-S15		15V/2A	88
HP30-S24		24V/1.25A	88
HP30-S48		48V/0.63A	88
HP40-S05	40W	5V/7A	80
HP40-S12		12V/3.3A	88
HP40-S15		15V/2.6A	88
HP40-S24		24V/1.66A	88
HP40-S48	50W	48V/0.83A	88
HP50-S12		12V/4A	87
HP50-S15		15V/3.3A	87
HP50-S24		24V/2A	88
HP50-S48		48V/1A	88

• HP10/HP20/HP25



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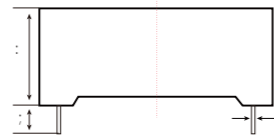
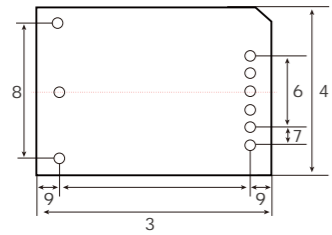
6 : ?	3	4	6	7	8	9	:	;	
HP10	48.5	36	40.5	12	4	25	4	20.5	4 1
HP20	55	45	47	15	5	35	4	21	4 1
HP25	62	45	55	15	5	35	3.5	23	4 1
HP30/HP40/HP50	70	48	62	23	5.75	40	4	23.5	4 1

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+0.5mm





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SP20/SP25/SP30	70	48	62	23	5.75	40	4	23.5	4	1

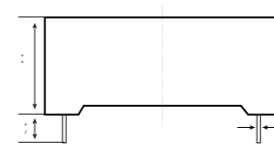
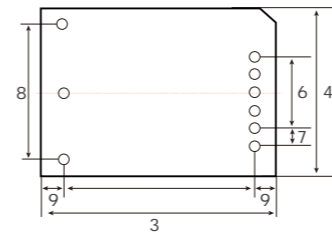
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		Ha!;afi . fi		
AEP05-S05	5W	85-305Vac 100-400Vdc	5V/1A	75
AEP05-S09			9V/0.55A	77
AEP05-S12			12V/0.42A	79
AEP05-S15			15V/0.33A	80
AEP05-S24			24V/0.21A	81
AEP10-S05	10W	85-264Vac 100-370Vdc	5V/2A	82
AEP10-S09			9V/1.1A	83
AEP10-S12			12V/0.83A	86
AEP10-S15			15V/0.66A	87
AEP10-S24			24V/0.42A	87
AEP15-S05	15W		5V/3A	84
AEP15-S09			9V/1.33A	85



		Ha!;afi . fi		
AEP15-S12	15W		12V/1.25A	86
AEP15-S15			15V/1A	87
AEP15-S24			24V/0.62A	87
AEP20-S05	20W	85-264Vac 100-370Vdc	5V/4A	86
AEP20-S09			9V/2.1A	87
AEP20-S12			12V/1.66A	89
AEP20-S15			15V/1.33A	89
AEP20-S24			24V/0.83A	88
AEP25-S05	25W		5V/5A	84
AEP25-S09			9V/2.77A	84
AEP25-S12			12V/2.1A	86
AEP25-S15			15V/1.66A	86
AEP25-S24			24V/1.1A	88





37B

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- 85-264VAC/100-370VDC
- 
- 
- 
- EMI EMC 4
- 4000VAC
- 
- 0.1W
- 
- 100%
- 

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		Ha#!;a#fi	Ha\$!;a\$fi	. fi
AEP05-D0505	5W	5V/0.6A	5V/0.4A	70
AEP05-D0512		5V/0.6A	12V/0.2A	75
AEP05-D1218		12V/0.4A	18V/0.1A	75
AEP05-D0524		5V/0.6A	24V/0.1A	76
AEP10-D0505	10W	5V/1A	5V/1A	75
AEP10-D05		5V/1.5A	-5V/0.5A	75
AEP10-D0512		5V/1A	12V/0.5A	78
AEP10-D0524		5V/1A	24V/0.25A	79
AEP10-D12		12V/0.45A	-12V/0.45A	80
AEP10-D15		15V/0.35A	-15V/0.35A	81
AEP10-TA		5V/1A	± 12V/0.25A	79
AEP10-TB		5V/1A	± 15V/0.2A	80



		#	\$	
		Ha#!;a#fi	Ha\$!;a\$fi	. fi
AEP20-D0512	20W	5V/2A	12V/0.83A	82
AEP20-D0524		5V/2A	24V/0.41A	83
AEP20-D12		12V/0.8A	-12V/0.8A	82
AEP20-D15		15V/0.66A	-15V/0.66A	84
AEP20-TA		5V/2A	± 12V/0.41A	82
AEP20-TB		5V/2A	± 15V/0.33A	83
AEP25-D0505	25W	5V/3A	5V/2A	82
AEP25-D0512		5V/3A	12V/0.83A	82
AEP25-D0524		5V/3A	24V/0.41A	83
AEP25-D12		12V/1.1A	-12V/1.1A	82
AEP25-D15		15V/0.83A	-15V/0.83A	84
AEP25-TA		5V/3A	± 12V/0.5A	82
AEP25-TB		5V/3A	± 15V/0.5A	83

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6;?	3	4		6	7	8	9	:	;	
AEP05-DT	48.5	36	40.5	12	4	24	4	20.5	4	1
AEP10-DT	55	45	47	15	5	35	4	21	4	1
AEP15-DT	62	45	55	15	5	35	3.5	23	4	1

mm  
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		!		. fi	
		Ha!;afi			
DPB03-05S05	3W	5 4.5-9Vdc	5V/0.6A	73	
DPB03-05S09			9V/0.33A	73	
DPB03-05S12			12V/0.25A	74	
DPB03-05S15			15V/0.2A	75	
DPB03-05S24			24V/0.12A	75	
DPB03-05D12			± 12V/0.12A	72	
DPB03-05D15			± 15V/0.2A	72	
DPB03-24S05	3W	24 9-36Vdc	5V/0.6A	73	
DPB03-24S09			9V/0.33A	73	
DPB03-24S12			12V/0.25A	74	
DPB03-24S15			15V/0.2A	75	
DPB03-24S24			24V/0.12A	75	
DPB03-24D12			± 12V/0.12A	72	
DPB03-24D15			± 15V/0.1A	72	



		!		. fi	
		Ha!;afi			
DPB03-48S05	3W	48 18-72Vdc	5V/0.6A	73	
DPB03-48S09			9V/0.33A	73	
DPB03-48S12			12V/0.25A	74	
DPB03-48S15			15V/0.2A	75	
DPB03-48S24			24V/0.12A	75	
DPB03-48D12			± 12V/0.12A	72	
DPB03-48D15			± 15V/0.1A	72	
DPB03-12S03R2	3W	12 9-18Vdc	3.3V/0.758A	73	
DPB03-12S05R2			5V/0.6A	77	
DPB03-12S12R2			12V/0.25A	80	
DPB03-12S15R2	3W	24 18-36Vdc	15V/0.2A	81	
DPB03-12S24R2			24V/0.125A	79	
DPB03-24S03R2			3.3V/0.758A	73	
DPB03-24S05R2			5V/0.6A	77	
DPB03-24S12R2	3W	24 18-36Vdc	12V/0.25A	80	
DPB03-24S15R2			15V/0.2A	81	
DPB03-24S24R2			24V/0.125A	79	

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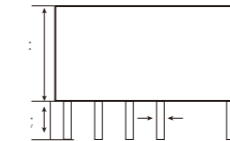


		! Ha! :afi . fi		
DEM06-24S03	6W	24 9-36Vdc	3.3V/1.2A	75
DEM06-24S05			5V/1.2A	79
DEM06-24S12			12V/0.5A	80
DEM06-24S15			15V/0.4A	80
DEM06-24S24			24V/0.25A	82
DEM06-48S03	6W	48 18-72Vdc	3.3V/1.2A	75
DEM06-48S05			5V/1.2A	79
DEM06-48S12			12V/0.5A	80
DEM06-48S15			15V/0.4A	80
DEM06-48S24			24V/0.25A	82
DEM10-24S03	10W	24 9-36Vdc	3.3V/2A	78
DEM10-24S05			5V/2A	83
DEM10-24S12			12V/0.83A	85
DEM10-24S15			15V/0.66A	86
DEM10-24S24			24V/0.42A	87



		! Ha! :afi . fi		
DEM10-48S03	10W	48 18-72Vdc	3.3V/2A	78
DEM10-48S05			5V/2A	80
DEM10-48S03			12V/0.83A	85
DEM10-48S03			15V/0.66A	86
DEM10-48S03			24V/0.42A	87
DEM12-24S03	12W	24 9-36Vdc	3.3V/2.4A	78
DEM12-24S05			5V/2.4A	83
DEM12-24S12			12V/1A	85
DEM12-24S15			15V/0.8A	86
DEM12-24S24			24V/0.5A	87
DEM12-24S03	12W	48 18-72Vdc	3.3V/2.4A	78
DEM12-24S05			5V/2.4A	83
DEM12-24S12			12V/1A	85
DEM12-24S15			15V/0.8A	86
DEM12-24S24			24V/0.5A	87

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	@a B[	
	ž-a	ž-a
	tHa	tHa

6:?	3	4		6	7	8	9	:	:	
DEM06/10/12	25.4	25.4	20.32	20.32	5.08	7.62	10.16	11.7	4.1	1

mm  
+0.1mm  
4.0mm  
+0.5mm

★ #f# 67? /#' Ž&"l fi

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- 0.1W
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- 100%
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		! Ha!;afi		. fi
DEM15-24S03	15W	24 9-36Vdc	3.3V/3A	88
DEM15-24S05			5V/3A	90
DEM15-24S12			12V/1.25A	90
DEM15-24S15			15V/1A	90
DEM15-24S24			24V/0.62A	90
DEM15-48S03	15W	48 18-72Vdc	3.3V/3A	88
DEM15-48S05			5V/3A	90
DEM15-48S12			12V/1.25A	90
DEM15-48S15			15V/1A	90
DEM15-48S24			24V/0.62A	90
DEM20-24S03	20W	24 9-36Vdc	3.3V/4A	85
DEM20-24S05			5V/4A	88
DEM20-24S12			12V/1.66A	89
DEM20-24S15			15V/1.33A	90
DEM20-24S24			24V/0.83A	90
	20W	DEM15-48S24		

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6:?	3	4		6	7	8	9	:	:	
DEM15/20/30/40	25.4	25.4	20.32	20.32	5.08	7.62	10.16	11.7	4.1	1

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BXXYYS-1W/2WR3

6;?	3	4		6	7	8	9	:	;	
BXXYYS1WR3	11.6	10	05	4.1	1.99	2.54	7.62	6	0.9	05
BXXYYS2WR3	19.6	10	05	4.1	1.99	2.54	7.62	7	0.9	05



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- 83%
- 1500VDC/3000VDC
- SIP
- 5mA
- ROHS
- 100%

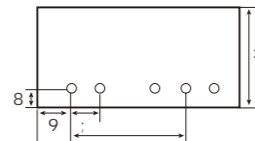
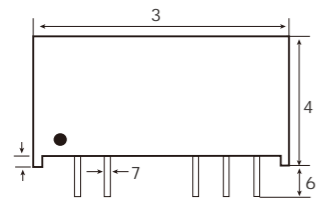


		Ha!;afi		. fi
F0505S-1WR3		5Vdc/200mA	3000Vdc	75
F0512S-1WR3	5	12Vdc/83mA	3000Vdc	78
F0515S-1WR3	4.5-5.5Vdc	15Vdc/67mA	3000Vdc	79
F0524S-1WR3		24Vdc/42mA	3000Vdc	80
F1205S-1WR3		5Vdc/200mA	3000Vdc	76
F1212S-1WR3	12	12Vdc/83mA	3000Vdc	80
F1215S-1WR3	10.8-13.2Vdc	15Vdc/67mA	3000Vdc	80
F1224S-1WR3		24Vdc/42mA	3000Vdc	79
F1505S-1WR3		5Vdc/200mA	3000Vdc	75
F1512S-1WR3	15	12Vdc/83mA	3000Vdc	77
F1515S-1WR3	13.5-16.5Vdc	15Vdc/67mA	3000Vdc	78
F1524S-1WR3		24Vdc/42mA	3000Vdc	78
F2405S-1WR3		5Vdc/200mA	3000Vdc	76
F2412S-1WR3	24	12Vdc/83mA	3000Vdc	76
F2415S-1WR3	(21.6-26.4Vdc)	15Vdc/67mA	3000Vdc	77
F2424S-1WR3		24Vdc/42mA	3000Vdc	78



		Ha!;afi		. fi
F0505S-2WR3		5Vdc/400mA	3000Vdc	75
F0512S-2WR3	5	12Vdc/166mA	3000Vdc	78
F0515S-2WR3	4.5-5.5Vdc	15Vdc/133mA	3000Vdc	79
F0524S-2WR3		24Vdc/83mA	3000Vdc	80
F1205S-2WR3		5Vdc/400mA	3000Vdc	75
F1212S-2WR3	12	12Vdc/166mA	3000Vdc	80
F1215S-2WR3	10.8-13.2Vdc	15Vdc/133mA	3000Vdc	80
F1224S-2WR3		24Vdc/83mA	3000Vdc	78
F1505S-2WR3		5Vdc/400mA	3000Vdc	76
F1512S-2WR3	15	12Vdc/166mA	3000Vdc	77
F1515S-2WR3	13.5-16.5Vdc	15Vdc/133mA	3000Vdc	78
F1524S-2WR3		24Vdc/83mA	3000Vdc	78
F2405S-2WR3		5Vdc/400mA	3000Vdc	76
F2412S-2WR3	24	12Vdc/166mA	3000Vdc	76
F2415S-2WR3	(21.6-26.4Vdc)	15Vdc/133mA	3000Vdc	77
F2424S-2WR3		24Vdc/83mA	3000Vdc	78

## • FXXYYS-1W/2WR3



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6;?	3	4	6	7	8	9	:	;		
FXXYYS1WR3	19.6	10	0.5	4.1	0.5	0.9	2.21	7	2.54	12.7
FXXYYS2WR3	19.6	10	0.5	4.1	0.5	0.9	2.21	6	2.54	12.7

mm  
+0.1mm  
4.0mm  
+0.5mm



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- 83%
- 1500VDC/3000VDC
- SIP
- 5mA
- ROHS
- 100%

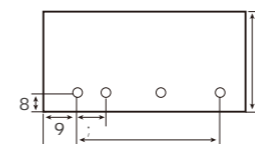
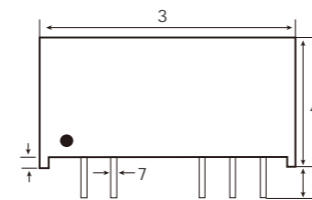


		Ha!;afi		. fi
F0505S-3WR3		5Vdc/600mA	3000Vdc	81
F0512S-3WR3	5	12Vdc/250mA	3000Vdc	82
F0515S-3WR3	4.5-5.5Vdc	15Vdc/200mA	3000Vdc	82
F0524S-3WR3		24Vdc/125mA	3000Vdc	82
F1205S-3WR3		5Vdc/600mA	3000Vdc	82
F1212S-3WR3	12	12Vdc/250mA	3000Vdc	83
F1215S-3WR3	10.8-13.2Vdc	15Vdc/200mA	3000Vdc	83
F1224S-3WR3		24Vdc/125mA	3000Vdc	83
F1505S-3WR3		5Vdc/600mA	3000Vdc	84
F1512S-3WR3	15	12Vdc/250mA	3000Vdc	84
F1515S-3WR3	13.5-16.5Vdc	15Vdc/200mA	3000Vdc	84
F1524S-3WR3		24Vdc/125mA	3000Vdc	84
F2405S-3WR3		5Vdc/600mA	3000Vdc	86
F2412S-3WR3	24	12Vdc/250mA	3000Vdc	86
F2415S-3WR3	(21.6-26.4Vdc)	15Vdc/200mA	3000Vdc	86
F2424S-3WR3		24Vdc/125mA	3000Vdc	86



		Ha!;afi		. fi
B0505LS-1WR3		5Vdc/200mA	3000Vdc	75
B0512LS-1WR3		12Vdc/83mA	3000Vdc	78
B0515LS-1WR3		15Vdc/67mA	3000Vdc	79
B0524LS-1WR3		24Vdc/42mA	3000Vdc	80
B1205LS-1WR3		5Vdc/200mA	3000Vdc	75
B1212LS-1WR3		12Vdc/83mA	3000Vdc	80
B1215LS-1WR3		15Vdc/67mA	3000Vdc	80
B1224LS-1WR3		24Vdc/42mA	3000Vdc	78
B1505LS-1WR3		5Vdc/200mA	3000Vdc	76
B1512LS-1WR3		12Vdc/83mA	3000Vdc	77
B1515LS-1WR3		15Vdc/67mA	3000Vdc	78
B1524LS-1WR3		24Vdc/42mA	3000Vdc	78
B2405LS-1WR3		5Vdc/200mA	3000Vdc	76
B2412LS-1WR3	24	12Vdc/83mA	3000Vdc	76
B2415LS-1WR3	(21.6-26.4Vdc)	15Vdc/67mA	3000Vdc	77
B2424LS-1WR3		24Vdc/42mA	3000Vdc	78

## • FXXYYS-3WR3

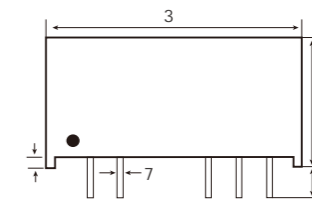


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6;?	3	4	6	7	8	9	:	;		
FXXYYS3WR3	19.6	10	0.5	4.1	0.5	0.9	2.21	7	2.54	15.24
BXXYYLS1WR3	19.6	6	10	4.1	0.5	0.9	2.21	6	2.54	12.7

mm  
+0.1mm  
4.0mm  
+0.5mm

## • BXXYYLS-1WR3



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SD15	88	59	63.65	/	/	45.15	35	37
SD30	90	35	63.65	/	/	45.15	35	54.5
SD60	92.3	76.3	/	10.16	35	/	/	60.5
SD60R2	90	52.5	63.65	/	/	45.15	35	58
SD100	70	90	63.65	/	/	45.15	35	58.4
SD150	105	90	63.65	/	/	45.15	35	58.4

★ PFC SMC 600-1000W

- 90-264VAC/100-370VDC
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- EMI
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- 100%
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			Vo/Io	%
SMC600-S05VR	600W	90-264Vac 100-370Vdc	5V/120A	85
SMC600-S12VR			12V/50A	89
SMC600-S15VR			15V/40A	90
SMC600-S24VR			24V/25A	90
SMC600-S36VR			36V/16.66A	92
SMC600-S48VR			48V/12.5A	92
SMC750-S12VR	750W	90-264Vac 100-370Vdc	12V/62.5A	85
SMC750-S15VR			15V/50A	89

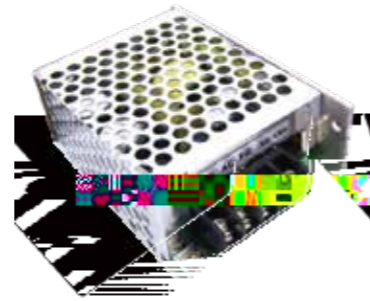
			Vo/Io	%
SMC750-S24VR	750W	90-264Vac 100-370Vdc	24V/31.25A	85
SMC750-S36VR			36V/20.83A	89
SMC750-S48VR			48V/15.62A	90
SMC1000-S12VR	1000W	90-264Vac 100-370Vdc	12V/83.33A	90
SMC1000-S15VR			15V/66.66A	92
SMC1000-S24VR			24V/41.66A	92
SMC1000-S36VR			36V/27.77A	85
SMC1000-S48VR			48V/20.83A	89

			Vo/Io	%
SMC350-S05VR	350W	90-264Vac 100-370Vdc	5V/70A	85
SMC350-S12VR			12V/29.16A	89
SMC350-S15VR			15V/23.33A	90
SMC350-S24VR			24V/14.583A	90
SMC350-S36VR			36V/9.72A	92
SMC350-S48VR			48V/7.29A	92
SMC500-S05VR	500W	90-264Vac 100-370Vdc	5V/100A	85
SMC500-S12VR			12V/41.66A	89
SMC500-S15VR			15V/33.33A	90
SMC500-S24VR			24V/20.83A	90
SMC500-S36VR			36V/13.88A	92
SMC500-S48VR			48V/10.416A	92

	J1	CN1
1	AC(L)	RC+
2	AC(N)	RC-
3	FG ⊖	/
4.5	DC OUTPUT -V	/
6.7	DC OUTPUT +V	/

★ DM 60-100W

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- 100%
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			/ (Vo/Io)	%
DM60-48S05	60W	36-72Vdc	5V/9A	80
DM60-48S09			9V/6A	82
DM60-48S12			12V/5A	86
DM60-48S15			15V/4A	87
DM60-48S24			24V/2.5A	89
DM100-48S05	100W	36-72Vdc	5V/20A	80
DM100-48S09			9V/11.11A	82
DM100-48S12			12V/8.33A	86
DM100-48S15			15V/6.66A	87
DM100-48S24			24V/4.16A	89

• DM60/DM100

★ SM 25-75W

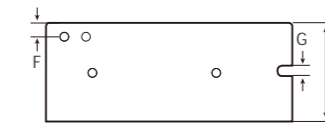
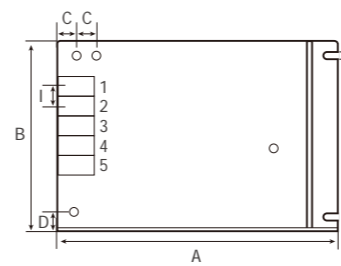
- 85-264VAC, 100-370VDC
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- 
- 100%
- 



			/ (Vo/Io)	%
SM25-S05VR	25W	85-264Vac 100-370Vdc	5V/5A	82
SM25-S12VR			12V/2.03A	86
SM25-S24VR			24V/1.04A	88
SM25-S48VR			48V/0.52A	89
SM35-S05VR	35W	85-264Vac 100-370Vdc	5V/7A	82
SM35-S12VR			12V/3A	86
SM35-S24VR			24V/1.5A	88
SM35-S48VR			48V/0.8A	89
SM50-S05VR	50W	85-264Vac 100-370Vdc	5V/10A	83
SM50-S12VR			12V/4.2A	86
SM50-S24VR			24V/2.2A	88
SM50-S48VR			48V/1.1A	90

			/ (Vo/Io)	%
SM60-S03	60W	90-264Vac 100-370Vdc	3.3V/9A	74
SM60-S05			5V/9A	80
SM60-S09			9V/6A	83
SM60-S12			12V/5A	85
SM60-S15			15V/4A	86
SM60-S18			18V/3.3A	86
SM60-S24			24V/2.5A	87
SM60-S36			36V/1.66A	88
SM60-S48			48V/1.2A	88
SM75-S05VR	75W		5V/15A	86
SM75-S12VR			12V/6.25A	89
SM75-S24VR			24V/3.12A	89
SM75-S48VR			48V/1.56A	90

• SM25VR/SM35VR/SM50VR/SM60/SM75VR



1	AC(L)
2	AC(N)
3	FG ⊕
4	DC OUTPUT -V
5	DC OUTPUT +V

DIM	A	B	C	D	E	F	G	H	I
SM25VR	78	51	5	6.5	4.5	2.75	3.5	28	9.5
SM35VR	99	82	5	6.5	4.5	2.75	3.5	30	9.5
SM50VR	104	82	5	6.5	4.5	2.75	3.5	30	9.5
SM60	85	58.5	5	6.5	4.5	2.75	3.5	35	9.5
SM75VR	104	82	5	6.5	4.5	2.75	3.5	30	9.5

mm  
+0.1mm  
4.0mm  
+0.5mm

★ SM 250-450W

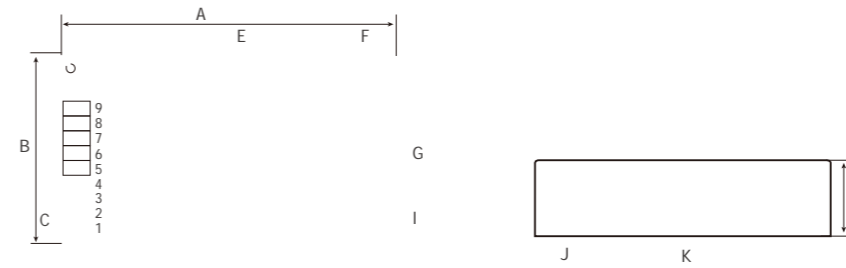
- 85-264VAC, 100-370VDC
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- 100%
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				(Vo/Io)	%
SM250-S05PVR	250W	85-132Vac 170-264Vac 240-370Vdc	5V/1.6A	75	
SM250-S12PVR			12V/8.3A	82	
SM250-S24PVR			24V/4.2A	85	
SM250-S48PVR			48V/2.77A	85	
SM350-S05PVR	350W	85-132Vac 170-264Vac 240-370Vdc	5V/60A	83	
SM350-S12PVR			12V/29A	87	
SM350-S15PVR			15V/23.3A	88	

				(Vo/Io)	%
SM350-S24PVR	350W	85-132Vac 170-264Vac 240-370Vdc	24V/14.5A	88	
SM350-S36PVR			36V/9.7A	88	
SM350-S48PVR			48V/7.3A	88	
SM450-S05PVR	450W	85-132Vac 170-264Vac 240-370Vdc	5V/90A	83	
SM450-S12PVR			12V/37.5A	87	
SM450-S15PVR			15V/30A	88	
SM450-S24PVR			24V/18.75A	88	
SM450-S36PVR			36V/12.5A	88	
SM450-S48PVR			48V/9.375A	88	

• SM250PVR

• SM350PVR/SM450PVR



1	AC(L)
2	AC(N)
3	FG ⊕
4-6	DC OUTPUT -V
7-9	DC OUTPUT +V

DIM	A	B	C	D	E	F	G	H	I	J	K
SM250/SM350/SM450	215	115	9.5	8	150	32.5	50	30	32.5	32.5	150

mm  
+0.1mm  
4.0mm  
+0.5mm



★ SF (15-30W)

- EMC 4 MIN
- 
- 
- 
- Class I
- 100%
- 



			Vo/Io)	%)
SF15-S03VR	15W	85-264Vac 100-400Vdc	3.3V/3A	83
SF15-S05VR			5V/3A	85
SF15-S12VR			12V/1.25A	87
SF15-S15VR			15V/1A	87
SF15-S24VR			24V/0.62A	88

• SF15VR

• SF25VR

• SF30TA

SF25-S05VR			5V/5A	85
SF25-S12VR			12V/2A	89
	30W			

Vo/Io)

★ SF (65-150W)

- EMC 4 MIN
- 
- 
- 
- Class I
- 100%
- 

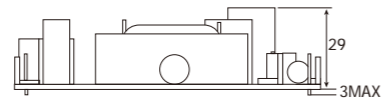


		Vo/Io	%
SF65-S05BVR	65W	5V/10A	86
SF65-S12BVR		12V/5.42A	90
SF65-S15BVR		15V/4.34A	92
SF65-S24BVR		24V/2.71A	91
SF65-S48BVR		48V/1.35A	91
SF100-S12R3	100W	12V/8.3A	91
SF100-S15R3		15V/6.6A	92
SF100-S24R3		24V/4.2A	91



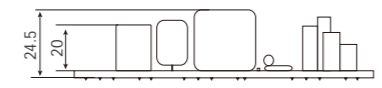
		Vo/Io	%
SF120-S12VR	120W	12V/10A	89
SF120-S15VR		15V/8A	91

• SF65BVR



1	AC(N)
2	No Pin
3	AC(L)
4	-Vo
5	-Vo
6	+Vo
7	+Vo

• SF100R3



1	AC(N)
2	No Pin
3	AC(L)
4	-Vo
5	-Vo
6	+Vo
7	+Vo

★ PFC SFC (180-420W)

- 85-264Vac,50/60Hz
- 
- 
- 
- 
- 30mW
- 100%
- 



		Vo/Io	%
SFC180-S12VR	180W	12V/15A	89
SFC180-S15VR		15V/12A	91



		Vo/Io	%
C180-S12VR12V			

• SFC180/SFC220/SFC250

• SFC320/SFC420

★ DF (15-30W)

- 24 18-36Vdc /48 36-72Vdc
- EM CLASS B
- 0.1W
- 85%
- Class
- 
-



★ SIP DFA αô ßZ?Ñ %7£ >P •Z?àa°

- 
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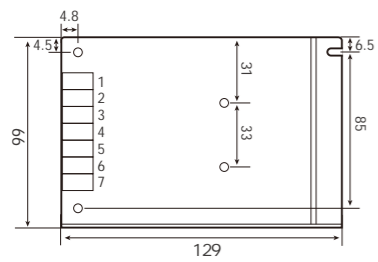
## 3-60W

- 
- 
- 30mW
- 
- 
- 
- 
- 100%
- 

		Vo/Io)		%)
SM20-3S12	20W	165-520Vac 150-728Vdc	12V/1.66A	85
SM20-3S15			15V/1.33A	86
SM20-3S24			24V/0.83A	88
SM30-3S12	30W	165-520Vac 150-728Vdc	12V/2.5A	85
SM30-3S15			15V/2A	86
SM30-3S24			24V/1.25A	88
SM50-3S12	50W	165-520Vac 150-728Vdc	12V/4.16A	85
SM50-3S15			15V/3.33A	86
SM50-3S24			24V/2.08A	88

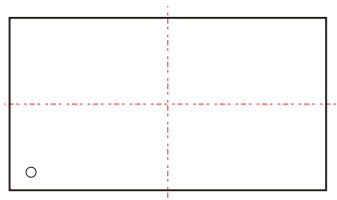
		Vo/Io)		%)
SM60-3S12	60W	165-520Vac 150-728Vdc	12V/5A	85
SM60-3S15			15V/4A	86
SM60-3S24			24V/2.5A	88
ZP03-3S03	3W	90-528Vac 100-745Vdc	3V/0.6A	74
ZP03-3S05			5V/0.6A	72
ZP03-3S09			9V/0.33A	74
ZP03-3S12			12V/0.25A	74
ZP03-3S15			15V/0.2A	74
ZP03-3S24			24V/0.125A	78

### • SM20/SM30/SM50/SM60



1	AC(L)
2	AC(N)
3	FG ⊕
4-5	-Vo
6-7	+Vo


### • ZP03



1	AC
2	AC
3	+Vo
4	-Vo



- CP3/ S ~ 1
- 
- 
- 
- 
- 
- 



★ 10-25W

- (85-305Vac 100-400Vdc)
- 
- 
- 4000VAC
- 0.1mA
- (2 MOPP )
- <0.1W
- 100%
- 

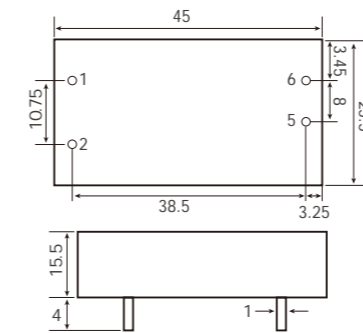


			Vo/Io)	%)
MPR10-S05	10W	85-305Vac 100-400Vdc	5V/2A	78
MPR10-S09			9V/1.05A	80
MPR10-S12			12V/0.83A	84
MPR10-S15			15V/0.66A	84
MPR10-S24			24V/0.42A	86
MP20-S05	20W	85-305Vac 100-400Vdc	5V/4A	80
MP20-S12			12V/1.66A	85
MP20-S15			15V/1.33A	86
MP20-S24			24V/0.83	88



			Vo/Io)	%)
MP25-S05	25W	85-305Vac 100-400Vdc	5V/5A	77
MP25-S12			12V/2.1A	83
MP25-S24			24V/1.05A	86
MP25-S48			48V/0.52A	88
MP25-S05R2	25W	85-305Vac 100-400Vdc	5V/4A	85
MP25-S12R2			12V/2.1A	90
MP25-S15R2			15V/1.66A	90
MP25-S24R2			24V/1.05A	88

• MPR10



1	AC
2	AC
5	+Vo
6	-Vo

MP20

35-60W

7

		Vo/Io)		%)	
LW(C)20-S05	20W	85-264Vac 100-370Vdc	12V/6A	77	
LW(C)20-S12			24V/3A	84	
LW(C)20-S15			36V/2.4A	84	
LW(C)20-S24			48V/1.5A	85	
LW(C)36-S12	36W	85-264Vac 100-370Vdc	12V/1A	86	
LW(C)36-S24			24V/8A	76	
LW(C)36-S36			36V/5A	83	
LW(C)36-S48			48V/4A	83	
LW(C)36-S54			54V/2.5A	86	

		Vo/Io)		%)	
LW(C)60-S12	60W	90-264Vac 100-370Vdc	12V/1.67A	86	
LW(C)60-S24			24V/1.67A	86	
LW(C)60-S36			36V/6A	77	
LW(C)60-S48			48V/3A	84	
LW(C)100-S12	100W	90-264Vac 100-370Vdc	12V/2.4A	84	
LW(C)100-S24			24V/1.5A	85	
LW(C)100-S36			36V/1A	86	
LW(C)100-S48			48V/8A	76	



(85-305Vac 100-400Vdc)

<0.1W

- 
- 
- 
- 
- 
- 
- 
- 100%
- 

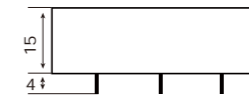
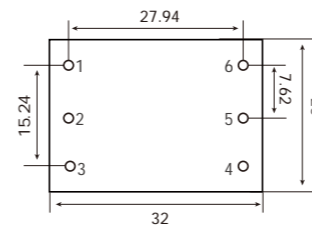


- PCB (PCB install)
- 
- FA
- UL CE(60950)
- 100%
- 



FP01	10.0± 30%	0.8A-1.2A	125/250Vac
FP02	10.0± 30%	0.8A-1.2A	(305Vac max)

•FP



	FP01	FP02
1	AC1(IN1)	AC1(IN1)
2	FG	AC2(IN2)
3		FG

★ 485

- 3.3V 5.0V
- 
- 500kbps
- (3.0kVDC)
- 128
- ESD
- EN60950
- 100%
- 



(typ.)

TD485H	3.3-5.0VDC	500kbps	37mA	90mA	3.3V	3.3V 5V	5V	128
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•TD48H

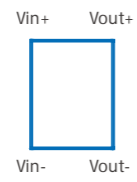
DC-DC

AC-DC



TA=25

75%



- a.
- b. A 0.001A
- c. V 0.001V



:

$$\frac{V_{OUTNL}-V_{OUTFL}}{V_{OUTFL}} \times 100\%$$

- VOUTNL 10%
- VOUTFL 100%

B0505XD-1W  
U/P=25 , 10% -100%

VOUTNL=5.29V VOUTFL=4.77V

$$= \frac{5.29VDC-4.77VDC}{4.77VDC} \times 100\% = 10.9\%$$

4.

$$= \frac{P_{out}}{P_{in}} = \frac{I_o \times V_o}{I_{in} \times V_{in}} \times 100\%$$

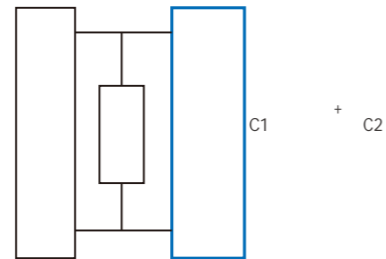
IB1212L-1W 12V  
12.039V; 83.3mA 115mA

$$\frac{0.0833 \times 12.039V}{0.1150A \times 12.000V} \times 100\% = 73\%$$

5.

(mVp-p)

- 1.C1 1uF
- 2.C2 10uF



AC-DC DC-DC



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