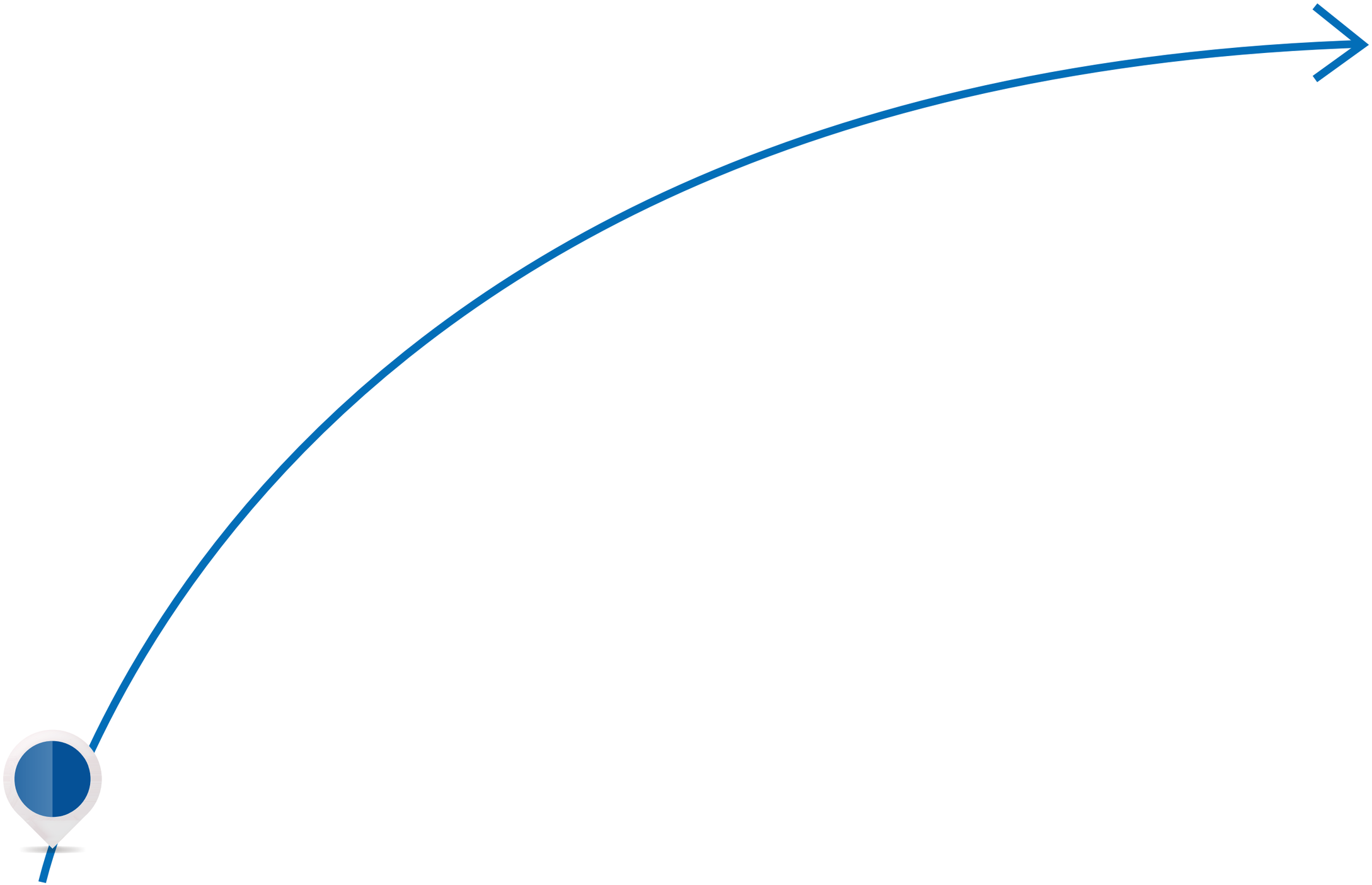
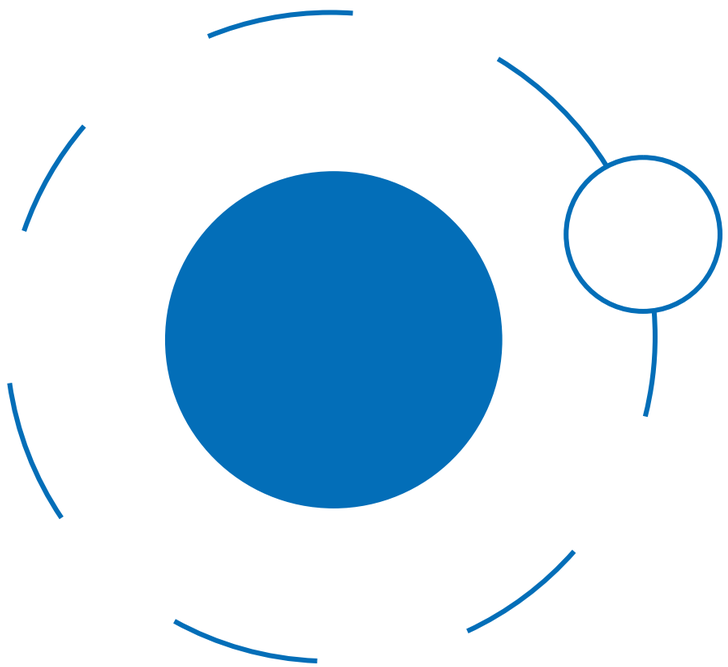
ZOEYGO





- QNK

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

- ?CN

	mm)	
	RoHS CE REACH	38
	CE	38

- 0(/,4 B&K

				mm)		
DIM20-XXSYY	20W	24 9-36 Vdc 48 18-72 Vdc	3.3V/5V/ ±12V/ ±15V/24V	50.8*40.6*10.16		49
DIM30-XXSYY	30W	24 9-36 Vdc 48 18-72 Vdc	3.3V/5V/ ±12V/ ±15V/24V	50.8*40.6*10.16	HS CE	49

ZOEYGO

- QK

				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*		
SM60-SXX	60W	90-264Vac 100-370Vdc	3.3V/5V/9V/12V/15V/ 18V/24V/36V/48V	85		
SM75-SXXVR	75W	90-264Vac 100-370Vdc	5V/12V/24V/48V			2
SM100-SXXVR	100W	90-264Vac 100-370Vdc	5V/12V/24V/36V/48V		H	63

ZOEYGO

QGN QD?

mm)

ZOEYGO

-

				mm)		
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	RoHS CE REACH	85
DGM20-110SXX	20W	40-160Vdc	3.3V/5V/12V/15V/24V	50.8*25.4*11.7	RoHS CE REACH	85
DM60-110SXX	60W	65-150Vdc	5V/9V/12V/15V/24V	85*58.5*34	RoHS CE REE	85

• ?A-BA +

AC(N) : AC(L) : -Vo : +Vo : Trim :

COM : : +V(CAP) : -V(CAP) :

NC : No Pin :

• BA-BA +

Vin : GND : +Vo : OV : -Vo :

DC(-Vin) : DC(+Vin) : Vadj : Ctrl : /

ON/OFF : / UVLO CS :)

Trim : NC : No Pin :

-Sense : +Sense :

• + $

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 :

1. EMC
*
2.
3. A

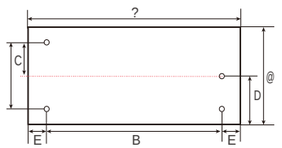
★ XN 1+3U

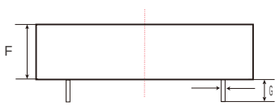
- 85-305VAC/100-400VDC
-
- 4000VAC
-
-
- 0.1W
-
- 100%
-

			- Tm-ĉm'	# '
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		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		5V/0.6A	75
ZPA03-S09			9V/0.33A	77

			- Tm-ĉm'	# '
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		5V/1A	75
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

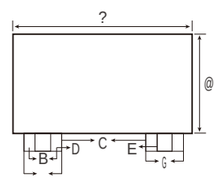
• ZP03/ZP03R2/ZP05

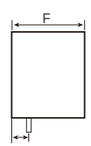




	?A
	?A
	) Tm
	+Tm

• ZPA03/ZPA05





	?A
	?A
	) Tm
	+Tm

B G K	?	@		B	C	D	E	F	G	
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

mm
+0.1mm
≥ 4.0mm
+0.5mm

*
1. EMC
2.

★ XN 2+4U

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

★ XN /.+3.U

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

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			24V/0.83A	88
ZP30-S09	30W		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

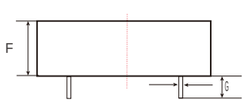
• ZPB04/ZPB05

	?A J
	?A L
	LA
2-3	Lm Ng l
	+Tm
	)Tm
6-7	Lm Ng l

• ZP05R3

	?A
	?A
	)Tm
	+Tm

• ZP05R2/ZP06



BGK	?	@		B	C	D	E	F	G	
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
+0.1mm
≥4.0mm
+0.5mm

1. EMC 2. 3. A
*

★ BN 4+03U

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

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

1. EMC 2. 3. A
*

★ ?CQ /0+03U

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

★ ?CQ 1.+7.U

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

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

02 -172Ď ă ă 26T Q/0

0223

★ QNK 1.+1..U

★ XNP /.+0.U

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

			-Tm-ĝm'	#'
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		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

			-Tm-ĝm'	#'
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

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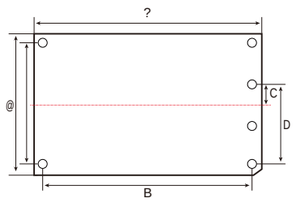
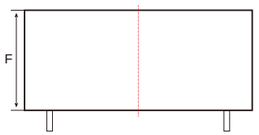




B¢K	?	@		B	C	D	E	F	¢	
ZPR10R2	39	25	19.05	33.02	3.18	12.7	/	22	≥4	1
ZPR15/ZPR20	51	25.5	2.35	45	20.8	8	3	15.5	≥4	1

mm
+0.1mm
≥4.0mm
+0.5mm

1. EMC 2. 3. A
*

★ XNP 1.+7.U

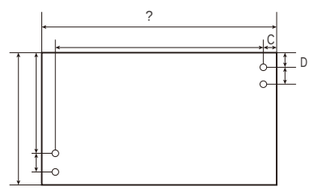
- 85-305VAC/100-400VDC
-
- EMI
- 4000VAC
-
-
- 0.1W
-
- 100%
-

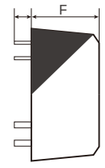
			-Tm-ĝm'	#'
ZPR30-S05	30W	85-264Vac 100-370Vdc	5V/6A	84
ZPR30-S12			12V/2.5A	87
ZPR30-S15			15V/2A	89
ZPR30-S24			24V/1.25A	90
ZPR45-S05	45W	85-305Vac 100-400Vdc	5V/9A	83
ZPR45-S09			9V/5A	87
ZPR45-S12			12V/3.75A	88
ZPR45-S15			15V/3A	89
ZPR45-S24			24V/1.87A	90

			-Tm-ĝm'	#'
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			24V/2.5A	91
ZPR90-S12	90W		12V/7.5A	92
ZPR90-S15			15V/6A	92
ZPR90-S24			24V/3.75A	93
ZPR90-S48			48V/1.87A	93

• ZPR30

	?A L
	?A&J'
	)Tm
	+Tm





	?A L
	?A&J'
	+Tm
	)Tm

B¢K	?	@		B	C	D	E	F	¢			J
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

mm
+0.1mm
≥4.0mm
+0.5mm

1. EMC 2.
*

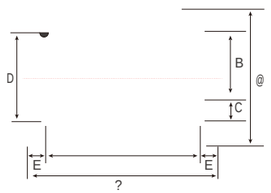
★ FN /.+3.U

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

			- Tm-ŝm'	# '
HP10-S03	10W	85~305Vac 100-400Vdc	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

			- Tm-ŝm'	# '
HP25-S12	25W	85~305Vac 100-400Vdc	12V/2.08A	84
HP25-S15			15V/1.66A	85
HP25-S24			24V/1.04A	87
HP30-S05	30W		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			48V/0.83A	88
HP50-S12	50W		12V/4A	87
HP50-S15			15V/3.3A	87
HP50-S24			24V/2A	88
HP50-S48			48V/1A	88

- **HP10/HP20/HP25**



B¢K	?	@		B	C	D	E	F	¢	
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

	DE
	?A&L '
	?A J
	+Tm
	Lm Nĝ l
	Lm Nĝ l
	Lm Nĝ l
	) Tm

	DE
	?A&L '
	?A J
	Lm Nĝ l
	+Tm
	Lm Nĝ l
	Lm Nĝ l
	Lm Nĝ l
	) Tm

mm
+0.1mm
≥4.0mm
+0.5mm

★ QN 0.+1.U

•

•

			- Tm-Gm'	# '
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

			- Tm-Gm'	# '
AEP15-S12	15W	85-264Vac 100-370Vdc	12V/1.25A	86
AEP15-S15			15V/1A	87
AEP15-S24			24V/0.62A	87
AEP20-S05	20W		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

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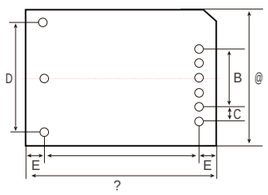

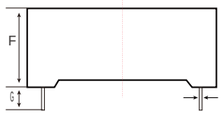

BGK	?	@		B	C	D	E	F	G	
SP20/SP25/SP30	70	48	62	23	5.75	40	4	23.5	≥ 4	1

mm
+0.1mm
≥ 4.0mm
+0.5mm

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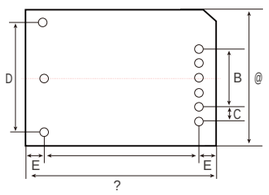

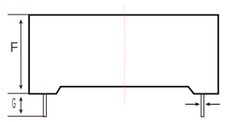

1. EMC 2.
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www.zygkj.com

★ ?CN 3+/3U

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

		/ Tm/-ɠm/'	0 TmO-ɠmO'	#'
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

"& à P` `0U`Đ à
p 7 "

		/ Tm/-ɠm/'	0 TmO-ɠmO'	#
AEP20-D0512	20W	5V/2A	12V/0.83A	82
AEP20-D0524		5V/2A	24V/0.41A	83
AEP20-D12		12V/0.8.A	-12V/0.8.A	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

B ɠK	?	@		B	C	D	E	F	ɠ	
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
+0.1mm
≥4.0mm
+0.5mm

1. EMC 2. 3. A
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1. EMC 2.
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1. EMC

2.

3.

★ BGN BN@ 1U

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			- Tm-ßm'	# '
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

			- Tm-ßm'	# '
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			15V/0.2A	81
DPB03-12S24R2			24V/0.125A	79
DPB03-24S03R2	3W	24 18-36Vdc	3.3V/0.758A	73
DPB03-24S05R2			5V/0.6A	77
DPB03-24S12R2			12V/0.25A	80
DPB03-24S15R2			15V/0.2A	81
DPB03-24S24R2			24V/0.125A	79

1. EMC 2.
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3. A

1. EMC 2.
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★ //(BCK 4+/0U

- 1*1 DIP
- 4:1
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-
- 0.1W
-
- 100%
-

			- Tm-ôm'	# '
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

			- Tm-ôm'	# '
DEM10-48S03	10W	48 18-72Vdc	3.3V/2A	78
DEM10-48S03			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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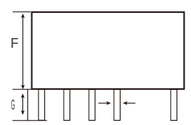

	QVV	QVVD
	) Tg l	) Tg l
	+Tg l	+Tg l
	Lm Ng l	
	+Tm	+Tm
	) Tm	) Tm

B G K	?	@		B	C	D	E	F	G	
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

1. EMC 2. 3. A
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1. EMC 2.
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★ /(/ BCK &/3+2.U'

- 1*1 DIP
- 4:1
- /
-
-
- 0.1W
-
- 100%
-

			- Tm-ûm'	#'
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
	20WDEM15-48S24			

-

B¢K	?	@		B	C	D	E	F	¢	
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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1. EMC 2. 3. A
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1. EMC 2.
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★ 0(/,4 BGK 0.+1.U

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1. EMC 2.
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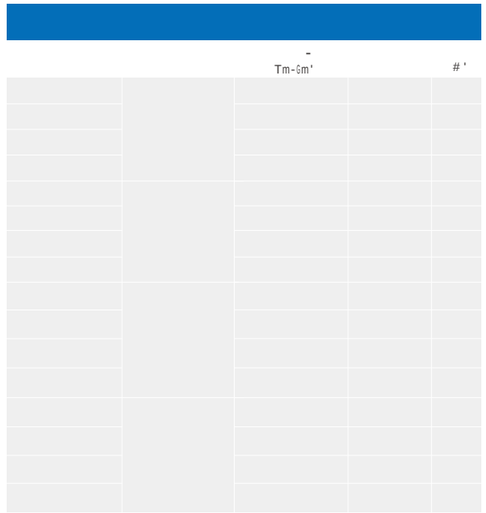


BXXYYS-1W/2WR3

B₲K	?	@		B	C	D	E	F	₲	
BXXYYS1WR3	11.6	10	0.5	4.1	1.99	2.54	7.62	6	0.9	0.5
BXXYYS2WR3	19.6	10	0.5	4.1	1.99	2.54	7.62	7	0.9	0.5

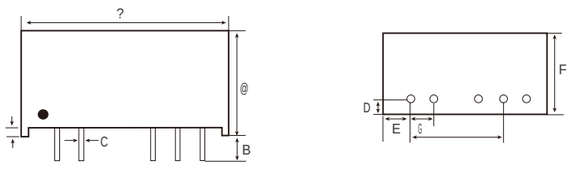
★ DVVWWQ+/U-0UP1

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

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

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

• FXXYYS-1W/2WR3



	Tĝl
	ELB
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	LMNĝl
	)Tm

B¢K	?	@		B	C	D	E	F	ĝ	
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

1. EMC
2.
3. A
*

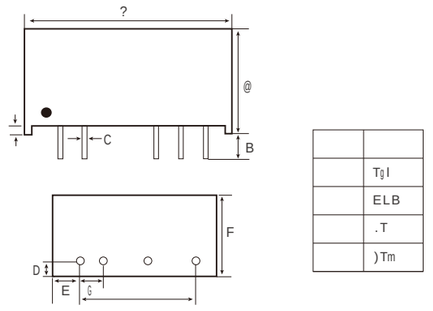
★ DVVWWQ+1UP1-@VVWWJQ+/UP1

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

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

		- Tm-ĝm'		# '
B0505LS-1WR3	5 4.5-5.5Vdc	5Vdc/200mA	3000Vdc	75
B0512LS-1WR3		12Vdc/83mA	3000Vdc	78
B0515LS-1WR3		15Vdc/67mA	3000Vdc	79
B0524LS-1WR3		24Vdc/42mA	3000Vdc	80
B1205LS-1WR3	12 10.8-13.2Vdc	5Vdc/200mA	3000Vdc	75
B1212LS-1WR3		12Vdc/83mA	3000Vdc	80
B1215LS-1WR3		15Vdc/67mA	3000Vdc	80
B1224LS-1WR3		24Vdc/42mA	3000Vdc	78
B1505LS-1WR3	15 13.5-16.5Vdc	5Vdc/200mA	3000Vdc	76
B1512LS-1WR3		12Vdc/83mA	3000Vdc	77
B1515LS-1WR3		15Vdc/67mA	3000Vdc	78
B1524LS-1WR3		24Vdc/42mA	3000Vdc	78
B2405LS-1WR3	24 (21.6-26.4Vdc)	5Vdc/200mA	3000Vdc	76
B2412LS-1WR3		12Vdc/83mA	3000Vdc	76
B2415LS-1WR3		15Vdc/67mA	3000Vdc	77
B2424LS-1WR3		24Vdc/42mA	3000Vdc	78

• FXXYYS-3WR3



	Tĝl
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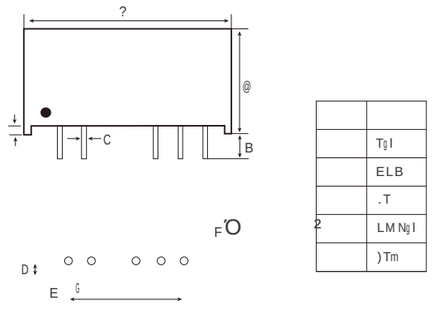
	)Tm

• BXXYYLS-1WR3



	Tĝl
	ELB
	.T
2	LMNĝl
	)Tm

B¢K	?	@		B	C	D	E	F	ĝ	
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

1. EMC
2.
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★ QB &/3+/3.U'

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	?A&J'
	?A&L'
7+//	)Tm
/0+/2	+Tm
	)Arp
	+Arp
	?BH
	JCB

B¡K	?	@		B	C	D	E	F
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

1. EMC 2. 3. A

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1. EMC 2.

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★ PFC SMC 600-1000W

- 90-264VAC/100-370VDC
-
- EMI
-
-
- 100%
-

			/ 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		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		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

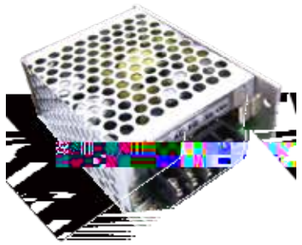
/
Vo/Io

			/ 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		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

- 2:1
-
-
-
-
-
- 100%
-



			/ (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

mm
+0.1mm
≥4.0mm
+0.5mm

1. EMC
2.
3. A
*

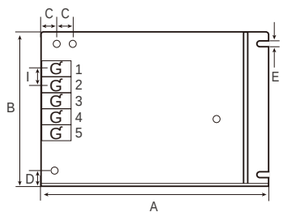
★ SM 25-75W

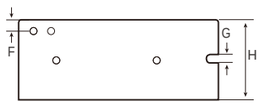
- 85-264VAC,100-370VDC
-
-
-
-
-
- 100%
-

			/ 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

1. EMC
2.
*

★ SM 250-450W

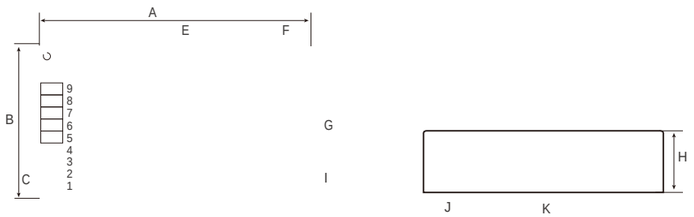
- 85-264VAC,100-370VDC
-
-
-
-
-
-
- 100%
-

			/ (Vo/Io)	%
SM250-S05PVR	250W	85-132Vac 170-264Vac 240-370Vdc	5V/16A	75
SM250-S12PVR			12V/8.3A	82
SM250-S24PVR			24V/4.2A	85
SM250-S48PVR			48V/2.77A	85
SM350-S05PVR	350W		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		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

1. EMC
2.
3. A
*

1. EMC
2.
*

★ 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

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

• SF25VR

• SF30TA

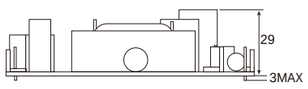
★ SF (65-150W)

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

			/ Vo/Io)	%)
SF65-S05BVR	65W	90-264Vac 100-370Vdc	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

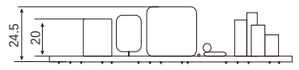
			/ Vo/Io)	%)
SF120-S12VR	120W	90-264Vac 100-370Vdc	12V/10A	89
SF120-S15VR			15V/8A	91

• 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

1. EMC 2. 3. A
*

★ PFC SFC (180-420W)

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

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

C180- C180_ S12VR12V

• SFC180/SFC220/SFC250

• SFC320/SFC420

1. EMC 2.
*

★ DF (15-30W)

- 24 18-36VDc /48 36-72Vdc
- EMI CLASS B
- , 0.1W
- , 85%
- Class
-
-

1. EMC 2. 3. A
*

1. EMC 2.
*

★ SIP DFA Œô ßZ?Ñ %7£ >P •Z?òa°

-
-
-

1. EMC 2. 3. A
*
www.zygkj.com

1. EMC 2.
*
www.zygkj.com

•DM70

•SD150/SD250

•DM350

1. EMC
*
2.
3. A

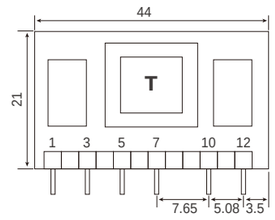
★ (3-20W)

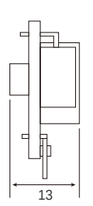
- ≤ 30mW
- ,
- 100%

			/ Vo/Io)	%)
SFA03-3S03	3W	85-528Vac 100-745Vdc	3.3V/0.6A	63
SFA03-3S05			5V/0.6A	68
SFA03-3S09			9V/0.33A	72
SFA03-3S12			12V/0.25A	74
SFA03-3S15			15V/0.2A	76
SFA03-3S24			24V/0.125A	80

			1 Vo1/Io1)	2 Vo2/Io2)	%)
SF15-3D1205	15W	57-528Vac 80-745Vdc	13.5V/1A	5V/0.3A	79
SF20-3D0512	20W	165-465Vac 200-650Vdc	5V/2.5A	12V/0.2A	78
SF20-3D0524			5V/2.5A	24V/0.2A	72
SF20-3D1212			12V/1.5A	12V/0.2A	78

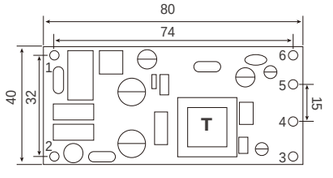
•SFA03

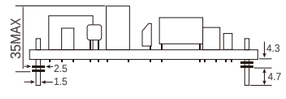




1	AC(L)
3	AC(N)
5	+V
7	-V
10	-Vo
12	+Vo

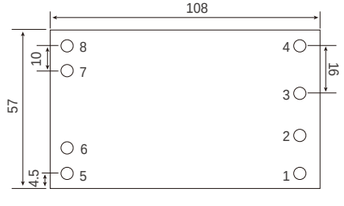
•SF15

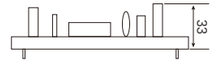




1	AC(N)
2	AC(L)
3	+Vo2
4	-Vo2
5	-Vo1
6	+Vo1

•SF20





1	(N)	(N)
2	(A)	(A)
3	(B)	(B)
4	(C)	(C)
5	-Vo	-Vo1
6	+Vo	+Vo1
7	No Pin	-Vo2
8	NC	+Vo2

1. EMC
*
2.

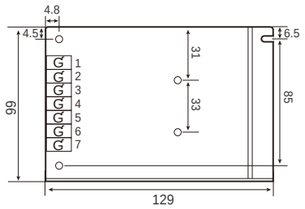
★ 3-60W

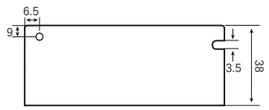
- ≤ 30mW
- ,
- 100%

			/ 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

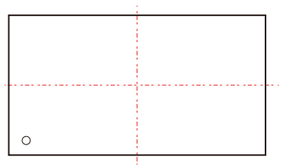
• SM20/SM30/SM50/SM60





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

• ZP03



1	AC
2	AC
3	+Vo
4	-Vo

1. EMC 2. 3. A
*

1. EMC 2.
*

1. EMC 2.
*

3.
Γ Γ Γ Ñ

A

★ UPS CF

★ CP

- CP3/ ọ S " = A Ĵ ỉ ij ij
-
-
-
-
-
-

1. EMC 2. 3. A
*
www.zygkj.com

1. EMC 2.
*
www.zygkj.com

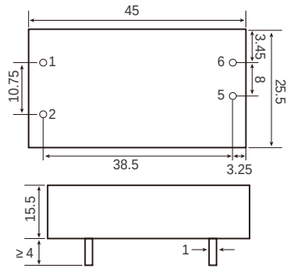
★ 10-25W

- (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

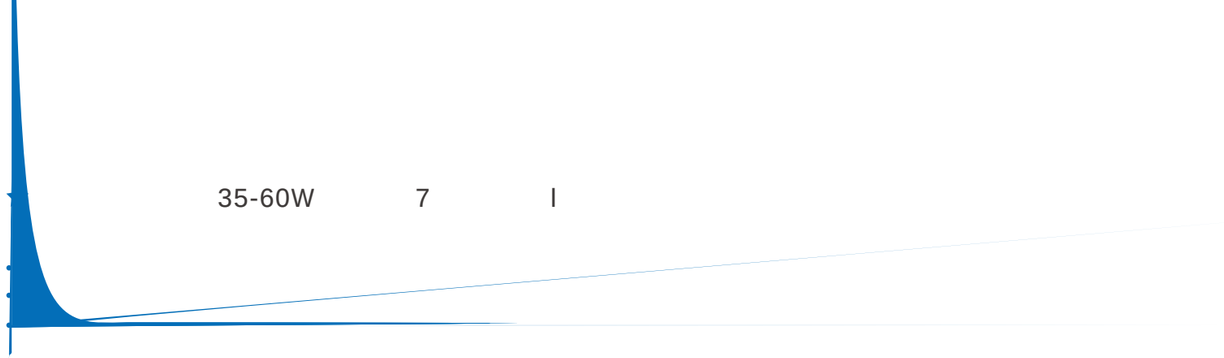
MP20

1. EMC
2.
3. A

*

1. EMC
2.

*



			/ 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		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

★

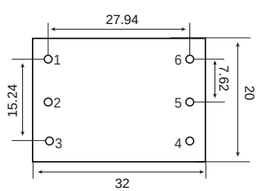
- (85-305Vac 100-400Vdc)
-
-
-
-
-
-
- <0.1W
- 100%
-

★

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

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

• 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

• TD48H

1. EMC
2.
3. A

*

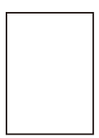
1. EMC
2.

*

DC-DC

AC-DC ,

TA=25 75%



a.

b. A 0.001A

c. V 0.001V

:

$$\frac{\text{VOUTNL-VOUTFL}}{\text{VOUTFL}} \times 100\%$$

- VOUTNL 10%
- VOUTFL 100%

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

VOUTNL=5.29V VOUTFL=4.77V

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

4.

$$\eta = \frac{Pout}{Pin} = \frac{Io \times Vo}{Iin \times Vin} \times 100\%$$

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)

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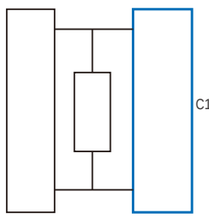

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