TDK·Lambda

TDK-Lambda Products Guide 2016

Ver.2

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TDK

web160803

Unit/PCB Type Power Supply (Single Output)

Output CHs	Type	Input Voltage	Features	PFC	RoHS	Series Name	Released Year	3	5	10	12	15	20	25	30	35	50	60	75	80	90	100	110	120	150	180	200	230	240	300	330	400	480	600	750	800	1k	1.5k	1.6k	1.8k	2.4k	2.5k	3.3k	5k	Warranty (Year)	Page
								Output Power (W)																																							
Single	Unit	AC100V/200V	High Efficiency, Full Function	○	○	New Model Available HWS-A, HWS	'13					●			●		●			●		●			●					●				●			●	●		●					5	16, 17
				○	○	New Model Available HWS-A/HD, HWS/HD	'13								●		●					●			●					●				●			●	●		●					5	17
				○	○	New Model Available HWS-A/ME, HWS/ME	'13								●		●					●			●					●				●			●	●							5	17
			Simple Function	○	○	New Model Available RWS-B	'13										●					●			●					●				●											5	18
			Super Slim, High Efficiency	○	○	RTW	'08										●					●			●					●															5	19
			Compact, DIN Rail Mounting	○	○	New Model Available DRJ	'15					●			●							●																							5	20
			DIN Rail Mounting	○	○	DLP	'04												●			●		●		●			●																3	20
			Peak Power Capability	○	○	HWS-P	'08																							●				●											5	24
				○	○	JWS-P	'97												●					●					●				●											3	—
			Conform to PSE, IP66	○	○	New Model Available ELC/ELV	'13				●						●	●			●																							3	29
			Linear	×	○	NNS	'91					●			●		●																											2	—
		DC80-370V/AC85-265V	Support for both DC and AC lines	○	○	New Model Available HMS	'15										●			●		●			●																			5	21
		AC100V/DC100V		×	×	MS	'85								●		●					●			●					●															5	—
		DC24V/48V/110V	DC-DC Unit Type Power Source	×	○	New Model Available RDS	'10								●		●	●				●				●																			5	21
	PCB	AC100V/200V	Embedded Type, Full Line-up	×	○	New Model Available ZWS-B	'12			●		●			●		●		●			●			●																			5	22
				○	○	New Model Available ZWS-BAF	'10										●		●			●			●					●															5	22
			Peak Power Capability	○	○	New Model Available ZWS-BP	'12																		●				●																5	25
			Product certified to medical standard	○	○	New Model Available CME-A	'16															●					●				●														3	31
				○	○	CME	'08																		●				●																3	31
			Built-in front end type	○	○	EFE	'09																							●															3	30
		AC100V	For 100VAC Input, Embedded Type	×	○	VS-E	'08										●		●			●			●																				5	23
				×	○	VS-C	'95			●		●			●																													2	23
			Peak Power Capability	×	○	VS-P	'05										●		●			●			●																				2	24
	Front End	AC100V/200V	High Density, 1U Rack Mountable	○	○	New Model Available HFE	'11																															●			●				3	30
			High Density, Unit Type	○	○	RKE	'02																																●						5	—
		3-phase AC 200V	High Density, Unit Type	○	○	HWS-T	'08																																	●					5	17
	Battery Charge power supply	AC100V/200V	Constant voltage/constant current AC-DC power supply	○	○	New Model Available EVS	'15																							●				●											5	32
		AC100V/200V	Constant voltage/constant current AC-DC power supply	○	○	New Model Available HWS-L/BAT	'12																											●			●								5	32
		AC200V	Constant voltage/constant current AC-DC power supply	○	○	New Model Available EVA	'12																																		●				5	33
		DC320/48V	Bidirectional insulating DC-DC converter	○	○	New Model Available EZA	'12																																			●			5	33

* Please refer to the pages of each product for more information.
* Conformity to RoHS Directive:Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Unit/PCB Type Power Supply (Multiple Output) , CVCC Programmable Power Supply, Configurable Power Supply

Output CHs	Type	Input Voltage	Features	PFC	RoHS	Series Name	Released Year	3	5	10	15	20	25	30	35	50	60	75	80	100	110	120	150	180	200	230	250	300	330	400	450	480	600	650	750	800	1K	1.5K	2.4K	3K	3.3K	5K	Warranty (Year)	Page
								Output Power (W)																																				
Unit/PCB Type Power Supply (multi-output)																																												
Dual	Unit	AC100V/200V	Linear	×	○	NND	'91				●			●																												2	–
Dual	PCB	AC100V/200V	Peak Power Capability	○	○	ZWD-PAF	'04													●			●			●																2	25
Triple	Unit	AC100V/200V	High Reliability	○	○	JWT	'99											●		●																						3	26
Triple	Unit	AC100V/200V	Ultra Slim Type	×	○	LWT-H	'94				●			●		●																										2	–
Triple	Unit	AC100V		×	○	RT	'84				●			●																												1	–
Triple	PCB	AC100V/200V	Ultra Slim, Embedded Type	×	○	MTW	'06				●			●			●																									3	27
Triple	PCB	AC100V/200V	Global Standard Size	×	○	SWT	'95							●	●		●			●																						1	26
Multiple	PCB	AC100V/200V	4CH Type	○	○	ZWQ	'00												●			●																				1	27
Multiple	PCB	AC100V/200V	PCB fanless multi output type	○	○	ZWX	'08																	●			●	●														3	29
Multiple	Unit	AC100V/200V	ATX Compliant	○	○	UNA	'00																						●													1	–
CVCC Programmable Power Supply																																												
Single	CVCC	AC100V/200V/400V	High Density, 19inch Rack Mountable	○	○	Genesys	'04																	●			●	●			●	●										5	34
Single	CVCC	AC100V/200V/400V	Fixed Type	○	○	New Model Available Z+	'12																		●				●			●			●							5	35
Configurable Power Supply																																												
Multiple	Modular Watt Box	AC100V/200V	Semi-Custom Capability	○	○	AlphaⅡ	'04																								●			●								3	28

* Please refer to the pages of each product for more information.".

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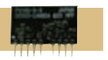
On-Board Power Supply

Isorated type

Input Voltage (VDC) 3	5	12	24	48	Input Voltage (VAC) 100	100 200	Series Name	Released Year	Output CHs 1CH	2CHs	Features	RoHS	Terminal Type DIP	SMD	SIP	Output Voltage (Vout) 1.5	1.8	2.5	3.3	5	9	12	15	24	30	Output Power (W) 1.5	3	5	6	10	15	25	30	Warranty (Year)	Page
							New Model Available CCG	'15	●		Wide input range, based on a 1 x 1 inch footprint.	○	●						●	●		●	●										●	5	45
			●	●			CC-P-E	'09	●		Ultra Compact Metal Shielded	○	●	●					●	●		●	●								●		●	5	44
●	●	●	●	●			CC-E	'05	●	●	Ultra Compact Metal Shielded	○	●	●	● (3W only)				●	●		●	●	●	●	●	●		●	●	●	●		5	44
	●	●	●	●			PV 	'99	●		Vertical Mounting (Mold Type)	○			●				●	●		●	●			●	●							3	–
	●	●	●	●			PVD	'99		●	Vertical Mounting (Mold Type)	○			●							●	●	●	●	●	●							3	–
						●	KWS-A	'15	●		AC-DC Onborad Type	○								●		●	●	●				●		●	●	●		3	45

Non-Isorated type

Input Voltage (VDC) 3	5	12	24	48	Series Name	Released Year	Output CHs 1CH	2CHs	Features	RoHS	Terminal Type DIP	SMD	SIP	Output Voltage (V) 1CH 0.6	0.7	1.5	1.8	2	3.3	5	9	12	15	24	40	50	100	Output Voltage (V) 2CHs ±12	±15	Output Current (A) ~0.1	~1.0	~1.5	~2.5	3	6	~7	12	~16	20	30	50	60	Warranty (Year)	Page
●	●				CE-09xx	'99	●	●	Low Profile	○		●				●	●	●	●	●								●	●	●	●	●													1	42
●	●	●	●		CE-10xx	'02	●		Low Profile	○		●				●	●	●	●	●	●	●										●	●												1	42
	●	●			iCF	'09	●		Industry Standard Foot Print	○		●				Variable																			●										3	42
	●	●			iCG	'12	●		Industry Standard Foot Print	○		●				Variable																				●									3	42
	●	●			iBF	'09	●		Industry Standard Foot Print	○		●				Variable																						●							3	42
	●	●			iAF	'09	●		Industry Standard Foot Print	○		●				Variable																							●					3	42
		●			PML	'12	●		Original Foot Print	○		●				Variable																								●	●			3	43
		●			New Model Available iJB	'14	●		Original Foot Print	○		●				Variable																											●	3	43

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Power Module

Input Voltage (VDC) 12	24	36	48	110	280	Input Voltage (VAC) 100	100 200	Series Name	Released Year	Features	RoHS		Isolation	Output Power (W) 5	6	10	15	25	30	50	65	75	100	150	200	300	350	400	450	500	600	700	1000	Warranty (Year)	Page
					●			New Model Available PH-A280, PAF600F280 PH300*280	'13	For Industrial Equipment	○		●							●		●	●	●		●					●			5 (PH-A280 only)	37
	●		●					PAE	'04	1/8 Brick Size	○		●							●			●											2	41
		●	●					iEE	'10	1/8 Brick Size	○		●							●	●													3	41
		●	●					iEA	'09	1/8 Brick Size	○		●							●		●												3	41
			●					PAQ (Single)	'01	1/4 Brick Size	○		●							●			●											2	39
			●					PAQ65D (Dual)	'01	1/4 Brick Size, 2CH	○		●								●												2	–
	●		●					iQG	'09	1/4 Brick Size	○		●															●						3	40
	●		●					iQL	'09	1/4 Brick Size	○		●												●	●								3	40
		●						iQE	'09	1/4 Brick Size	○		●										●	●	●									3	40
	●		●					PAH50-450S (Single)	'99	1/2 Brick Size	○		●							●		●	●	●	●	●	●		●					2	38
	●		●					PAH75D (Dual)	'01	1/2 Brick Size, 2CH	○		●									●												2	–
			●					PAH200H (Single)	'01	1/2 Brick Size	○		●												●									2	38
			●					iHG	'10	1/2 Brick Size	○		●																●					3	39
			●					iFB	'09	Full Brick Size	○		●																		●			3	38
	●		●		●			PAF	'04	Full Brick Size	○		●																	●	●	●		2	37
	●			●				CN-A	'09	For Railway Related Instruments	○		●						●	●			●		●									5	40
							●	PF-A	'93	PFHC Module	○																			●			●	2	36
							●	New Model Available PFE-FA,PFE-F	'08	AC/DC Power Module	○		●																	●			●	2	36
							●	New Model Available PFE-SA	'13	AC/DC Power Module	○		●													●				●		●		5	36

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Backlight Power supply for LCD

■ LED Driver (Constant Current Type DC-DC Converter)

Part Number	Output	Input Voltage	Output Current	Dimming	Max Output Voltage	Operating Temperature	Page
ALD-214012PJ111(High Efficiency)	2	10.8～13.2Vdc	140mA	12 - 140 mA	44Vdc	−30～+85℃	43
ALD-214012PJ132(Low Noise)	2	10.8～13.2Vdc	140mA	12 - 140 mA	44Vdc	−30～+85℃	43
ALD-310012PJ125	3	10.8～13.2Vdc	100mA	40 - 100 mA	38Vdc	−30～+80℃	43
ALD-414012PJ126(High Efficiency)	4	10.8～13.2Vdc	140mA	20 - 140 mA	44Vdc	−30～+85℃	43
ALD-414012PJ133(Low Noise)	4	10.8～13.2Vdc	140mA	20 - 140 mA	44Vdc	−30～+85℃	43
ALD-514012PJ134	5	10.8～13.2Vdc	140mA	20 - 140 mA	44Vdc	−30～+85℃	43
ALD-605012P*131※1	6	10.8～13.2Vdc	50mA	20 - 50 mA	38Vdc	−30～+80℃	43

*1 Mount type: DIP & SMD DIP:ALD-605012PD131、SMD:ALD-605012PS131

■DC-AC Inverter (for CCFL Backlight)

Using a newly formulated circuit and innovatively designed transformer, we have added an inverter with efficiency enhanced to the level of the industry's top class, to expand product lineup as well as strengthen our response to industrial LCD panels.

- ●By using an inverter with new circuit system, we have improved efficiency by approximately 10% (compared to our conventional product)
- ●Expanded lineup of inverters for industrial LCDs used by various companies
- ●Key components (capacitor, transformer, coil, etc.) produced by TDK Group

Type	Output	Dimming	Panel Size ※1	Output Connector	Part Number	Input Voltage (V)	Operating Temperature (℃)	Output Open Voltage (Vrms)	Output Current (mArms)	UL60950	Input Fuse	Remote	Alarm Signal	Shut Down	Page
Onboard Type	※2 1 or 2	Non Dimming	3～8	Pin terminal	CXA-L10A	5	−10～+60	800	5 ※2	●	-	-	-	-	–
					CXA-L10L	12	−10～+60	800	5 ※2	●	-	-	-	-	–
					CXA-P20L-L	12	−10～+60	800	10 ※2	-	-	-	-	-	–
			3～10		CXA-M10A-L	5	−10～+60	1000	5 ※2	●	-	-	-	-	–
					CXA-M10L-L	12	−10～+60	1000	5 ※2	●	-	-	-	-	–
					CXA-M10M-L	24	−10～+60	1000	5 ※2	●	-	-	-	-	–
Connector Type	1	Non Dimming	3～15	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-L0505-NJL	5	0～+60	1400	5	●	●	-	-	-	–
					CXA-L0512-NJL	12	0～+60	1400	5	●	●	-	-	-	–
					CXA-L0524-NJL	24	0～+60	1400	5	●	●	-	-	-	–
Connector Type	1	Current	3～15	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-L0605A-VJL	4.5～5.5	−20～+75	1600	6～2.9	-	●	●	-	-	–
					CXA-L0612B-VJL	9.6～14.4	0～+70	1500	6～1.6	●	●	●	-	-	–
					CXA-L0624-VJL	20～28	0～+60	1400	6～3	-	●	●	-	-	–
				SM02B-BHSS-1-TB (LF)(SN) / JST	CXA-L0612B-VSL	9.6～14.4	0～+70	1500	6～1.6	●	●	●	-	-	–
		PWM	3～8	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0489	10.8～13.2	−30～+75	1200	6～3	-	●	●	●	●	–
			3～15	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0461	10.8～13.2	−10～+70	1600	5～2.7	-	●	●	●	●	–
					CXA-0492	10.8～13.2	−30～+80	2050	6～2.6	-	●	●	●	●	–

*1 Applicable panel size becomes a standard. *2 Select of quantity for output and output current is possible by connection method.

Type	Output	Dimming	Panel Size ※1	Output Connector	Part Number	Input Voltage (V)	Operating Temperature (℃)	Output Open Voltage (Vrms)	Output Current (mArms)	UL60950	Input Fuse	Remote	Alarm Signal	Shut Down	Page
Connector Type	2	Current	5～8	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0356	4.75～5.25	−0～+60	1500	6～3	●	●	●	-	-	–
			8～12	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0393	10.8～13.2	−10～+70	1600	6～2	-	●	●	-	-	–
			10～15	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0217	9.6～14.4	0～+70	1400	6～2	●	●	●	-	-	–
		PWM	5～6	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0406	4.75～5.25	−10～+70	1050	6.4～3.2	●	●	●	●	●	–
			5～8	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0320	10.8～13.2	−10～+70	1200	5～2.2	-	●	●	●	-	–
					CXA-0326	9～19	−10～+70	1000	5.5～2.5	-	●	●	●	-	–
				SM03(7-D1) B-BHS-1-TB (LF)(SF) / JST	CXA-0420	4.5～13.2	−10～+75	1100	5～2.5	-	●	●	●	●	–
					CXA-0441	4.5～5.5	−10～+75	1250	5～2.6	-	●	●	●	●	–
					CXA-0548	10.8～13.2	−20～+70	1400	6～2.9	-	●	●	●	●	–
					CXA-0437	10.8～13.2	−10～+75	1250	5～2.6	-	●	●	●	●	–
			5～10	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0549	10.8～13.2	−20～+70	1250	6～2	●	●	●	●	-	–
					CXA-0457	10.8～13.2	−20～+70	1600	6.5～3.7	●	●	●	●	●	–
				SM03(7-D1)B-BHS-1-TB (LF)(SF) / JST	CXA-0463	10.8～13.2	−30～+80	1300	6～2.5	-	●	●	●	●	–
			8～10	SM03(4.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0543	10.8～13.2	−20～+80	1200	5～2	-	●	●	●	●	–
				SM03(7-D1) B-BHS-1-TB (LF)(SN) / JST	CXA-0496	10.8～13.2	−30～+80	1400	6～4.3	●	●	●	●	●	–
					CXA-0474	11.4～12.6	−10～+70	1750	5～2.5	-	●	●	●	●	–
			8～12	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-P1212E-WJL	10.8～13.2	−30～+80	1500	6～2	-	●	●	●	●	–
					CXA-0454	10.8～13.2	−30～+80	1500	6～3	●	●	●	●	●	–
				SM03(7-D1) B-BHS-1-TB (LF)(SN) / JST	CXA-0368	10.8～13.2	−10～+65	1500	6～2	-	●	●	●	●	–
					CXA-P1212D-WJL	10.8～13.2	−30～+80	1500	6～2	●	●	●	●	●	–
					CXA-0359	11.4～12.6	−10～+70	1600	5～2.2	-	●	●	●	●	–
			10～15	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0523	10.8～13.2	−20～+70	1600	7.5～3.9	●	●	●	●	●	–
			15	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0508	11.4～12.6	−10～+60	1500	6.5～3	-	●	●	●	●	–
				SM02B-BHSS-1-TB(LF)(SN) / JST SM02(4.0)B-BHS-1-TB(LF)(SN) / JST	CXA-0535	10.8～13.2	−30～+80	1700	6.5～3	●	●	●	●	●	–
Connector Type	4	PWM	15	SM02B-BHSS-1-TB (LF)(SN) / JST SM02(4.0)B-BHS-1-TB (LF)(SN) / JST	CXA-0538	10.8～13.2	−30～+80	1700	6.5～3	●	●	●	●	●	–
			17		CXA-0538-A	10.8～13.2	−30～+80	1700	6.5～4.2	●	●	●	●	●	–
	6		15～17	SM02(8.0)B-BHS-1-TB (LF)(SN) / JST	CXA-46012PJ107	10.8～13.2	−30～+80	1700	6～3	-	●	●	●	●	–
				SM02B-BHSS-1-TB (LF)(SN) / JST	CXA-0488	10.8～13.2	−10～+60	1800	6.9～3.8	-	●	●	●	●	–
			19～21	SM02B-BHSS-1-TB (LF)(SN) / JST	CXA-0379	11.4～12.6	0～+60	1700	6～3	-	●	●	●	●	–

*1 Can change the number of Output and Output Current by changing connection.

EMC Filter

Power Supply	Performance	Case's shape	Terminal structure	Function: high-frequency noise correspondence	Function: high-voltage pulses correspondence	Function: Low-leakage current correspondence*1	Function: A DIN-rail correspondence*1	Function: Output Inverter correspondence	Series Name*1	Released Year/Month	Rating Voltage (V)	Rated current (A): 0.5	1	2	3	4	5	6	10	16	20	30	40	50	60	80	100	150	200	250	300	400	600	1000	Safety Standards	Page
For Single-phase	Standard	Inlet	Faston terminal※2	●	-	-	-	-	RPE	Sep '12	250				●			●	●																	–
				●	-	-	-	-	RPE-R	Sep '12	250				●			●	●																	–
				●	-	●	-	-	RPE-L	Sep '12	250				●			●	●																	–
				●	-	●	-	-	RPE-RL	Sep '12	250				●			●	●																	–
				●	●	-	-	-	RPA	Sep '12	250				●			●																		–
				●	●	-	-	-	RPA-R	Sep '12	250				●			●																		–
				●	●	●	-	-	RPA-L	Sep '12	250				●			●																		–
				●	●	●	-	-	RPA-RL	Sep '12	250				●			●																		–
				●	-	-	-	-	RPE-F01	Sep '12	250				●			●																		–
				●	-	-	-	-	RPE-F02	Sep '12	250				●			●																		–
				●	-	●	-	-	RPE-F01L	Sep '12	250				●			●																		–
				●	-	●	-	-	RPE-F02L	Sep '12	250				●			●																		–
		Small-size box cased	Pin terminal	●	-	-	-	-	RSEG	Sep '12	250	●	●	●	●	●		●																		–
				●	●	-	-	-	RSAG	Sep '12	250	●	●	●	●	●		●																		–
			Faston #110	●	-	-	-	-	RSEL-A	July '07	250	●	●	●	●			●																		–
				●	-	●	-	-	RSEL-AL	July '07	250	●	●	●	●			●																		–
			UL1015 Wire	●	-	-	-	-	RSEL-W	July '07	250	●	●	●	●			●																		–
				●	-	●	-	-	RSEL-WL	July '07	250	●	●	●	●			●																		–
				●	●	-	-	-	RSEL-M	May '14	250	●	●	●	●		●																			–
			Faston #110	●	●	-	-	-	RSAL-A	July '07	250	●	●	●	●			●																		–
				●	●	●	-	-	RSAL-AL	July '07	250	●	●	●	●			●																		–
			UL1015 Wire	●	●	-	-	-	RSAL-W	July '07	250	●	●	●	●			●																		–
				●	●	●	-	-	RSAL-WL	July '07	250	●	●	●	●			●																		–
		Low profile type	Block terminal (Self-up screw)	●	-	-	-	-	RSEN	July '07	250				●			●	●	●	●	●	●	●	●	●	●	●	●	●	※3					46
				●	-	●	-	-	RSEN-L	July '07	250				●			●	●	●	●	●														–
				●	-	-	●	-	RSEN-D	July '07	250				●			●	●	●	●	●														–
				●	-	●	●	-	RSEN-LD	July '07	250				●			●	●	●	●	●														–
				●	●	-	-	-	RSAN	July '07	250				●			●	●	●	●	●	●	●	●											–
				●	●	●	-	-	RSAN-L	July '07	250				●			●	●	●	●	●														–
				●	●	-	●	-	RSAN-D	July '07	250				●			●	●	●	●	●														–
				●	●	●	●	-	RSAN-LD	July '07	250				●			●	●	●	●	●														–
	High Performance	Low profile type		●	-	-	-	-	RSHN	July '07	250				●			●	●	●	●	●	●	●	●	●	●	●	●	●	※3					–
				●	-	●	-	-	RSHN-L	July '07	250				●			●	●	●	●	●														–
				●	-	-	●	-	RSHN-D	July '07	250				●			●	●	●	●	●														–
				●	-	●	●	-	RSHN-LD	'July '07	250				●			●	●	●	●	●														–
				●	●	-	-	-	RSMN	July '07	250				●			●	●	●	●	●	●	●	●	※3										–
				●	●	●	-	-	RSMN-L	July '07	250				●			●	●	●	●	●														–
				●	●	-	●	-	RSMN-D	July '07	250				●			●	●	●	●	●														–
				●	●	●	●	-	RSMN-LD	July '07	250				●			●	●	●	●	●														–
			Block terminal	●	-	-	-	-	RSKN	May '14	250							●	●		●	●														–

*1 L : For low-leakage (current to 30A), D : For a DIn -rail (current to 30A)
*2 "Faston" is a registered trademark of Tyco Electronics AMP Corp. Incorporated

*3 ▭ See relevant product pages for details about safety standard certification of models enclosed in blue boxes.
* During development (Symbol ○)

EMC Filter

Power Supply	Performance	Case's shape	Terminal structure	Function: high-frequency noise correspondence	Function: high-voltage pulses correspondence	Function: Low-leakage current correspondence	Function: A DIN-rail correspondence*1	Function: Output Inverter correspondence	Series Name*1	Released Year/Month	Rating Voltage (V)	Rated current (A): 0.5	1	2	3	4	5	6	10	16	20	30	40	50	60	80	100	150	200	250	300	400	600	1000	Safety Standards	Page
For Three-phase	standard	Low profile type	Block terminal (Self-up screw)	●	-	-	-	-	RTEN	July '07	500							●	●		●	●	●	●	●	●	●	●	●	●	※2				46
				●	-	-	●	-	RTEN-D	July '07	500							●	●		●	●													–
				●	●	-	-	-	RTAN	July '07	500							●	●		●	●	●	●	●										–
				●	●	-	●	-	RTAN-D	July '07	500							●	●		●	●													–
				●	-	●	-	●	RTCN	July '07	500							●	●		●	●	●	●	●	●	●	●	●	●	※2				–
	High-performance	Low profile type		●	-	-	-	-	RTHN	July '07	500							●	●		●	●	●	●	●	●	●	●	●	●	※2				47
				●	●	-	-	-	RTMN	July '07	500							●	●		●	●	●	●	●										–
		Book type		●	-	-	-	-	RTHB	July '07	500							●	●		●	●	●	●	●	●	●	●							47
		Cube type		●	-	-	-	-	RTHC	July '07	500							●	●		●	●	●	●	●	●	●	●	●	●	※2				47
	Low Leakage current	Low profile type		●	-	●	-	-	RTEN-2	May '14	250							●	●		●	●	●	●	●	●	●	●	●	●	※2				–
				●	-	●	-	-	RTHN-2	May '14	250							●	●		●	●	●	●	●	●	●	●	●	●	※2				–

Power Supply	Performance	Case's shape	Terminal structure	Function: high-frequency noise correspondence	Function: high-voltage pulses correspondence	Function: Low-leakage current correspondence	Function: A DIN-rail correspondence*1	Function: Output Inverter correspondence	Series Name*1	Released Year/Month	Rating Voltage (V)	Rated current (A): 0.5	1	2	3	4	5	6	10	16	20	30	40	50	60	80	100	150	200	250	300	400	600	1000	Safety Standards	Page
DC	DC48V input only	Low profile type	Stud terminal	●	-	-	-	-	RDEN-048	May '14	48													●												–

*1 L : For low-leakage (current to 30A), D : For a DIn -rail (current to 30A)

*2 ▭ See relevant product pages for details about safety standard certification of models enclosed in blue boxes.

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