

AC INPUT POWER SUPPLIES

Multi-output, input voltage Eac: 85 to 264V and 85 to 132V

FMW, FCP and FCP-B series

FMW SERIES

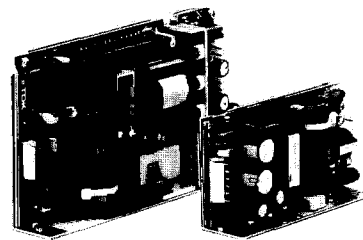
FEATURES

- Warranty period is for 2 years.
- Wide input low profile 3 outputs type.

SPECIFICATIONS

Input voltage range Eac	85 to 264V
Input frequency	47 to 66Hz
Operating temperature range	0 to +60°C [With derating over 50°C]
Withstand voltage Eac	2kV
Auxiliary functions	Overvoltage protection, Overcurrent protection

Safety standard	UL1950 D3 Certified: 8W UL478 Certified: 15, 35W CSA No.1402C Certified: 8W CSA No.1402 Certified: 15W CSA No.1402B Certified: 35W
Terminal noise voltage	Conforms FCC class B Conforms VDE class B 15, 35, 50W



Output power (W)	Part No.	Output voltage (V)	Output current (A)	Efficiency (%)	Dimensions (mm) H×W×L	Weight (kg)
8	FMW-011	5	1	66	25×60×110	0.22
		+12	0.2			
		-12	0.1			
15	FMW-021	5	2	67	30×60×110	0.24
		+12	0.3			
		-12	0.2			
	FMW-022	5	2			
		+15	0.3			
		-15	0.2			
35	FMW-031	+5	5	72	30×95×158	0.4
		+12	1.2			
		-12	0.3			
50	FMW-051	+5	5	73	30×95×180	0.5
		+12	2			
		-12	0.3			

- Option: Cable kit available

FCP, FCP-B SERIES

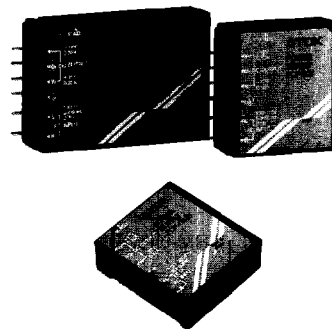
FEATURES

- Warranty period is for 2 years.
- 2 outputs in small resin packaged type.

SPECIFICATIONS

Input voltage range Eac	85 to 132V
Input frequency	47 to 66Hz
Operating temperature range	0 to +60°C [With derating over 50°C]
Withstand voltage Eac	2kV

Auxiliary function	Overcurrent protection
Safety standard	UL478 Certified CSA No.1402 Certified
Terminal noise voltage	Conforms FCC class B



AC INPUT POWER SUPPLIES

Input voltage Eac: 85 to 115V or 170 to 253V selective-input type

ECX series

FCP, FCP-B SERIES

SPECIFICATIONS

Output power (W)	Part No.	Output voltage (V)	Output current (A)	Efficiency (%)	Dimensions (mm) H×W×L	Weight (kg)
3	FCP-031(B*)	+12	0.12	64	19×55×50	0.08
		-12	0.12			
	FCP-032(B)	+15	0.1			
		-15	0.1			
10	FCP-101(B)	+12	0.4	75	19×55×80	0.1
		-12	0.4			
	FCP-102(B)	+15	0.32			
		-15	0.32			

* Add B for on-board version.

ECX SERIES

FEATURES

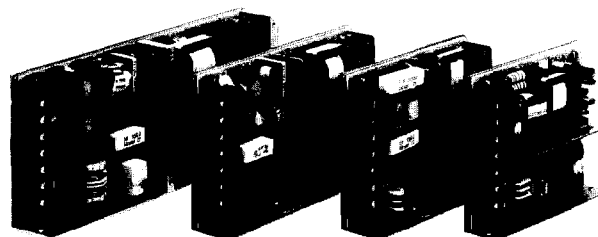
- Warranty period is for 2 years.
- Small 2 outputs type for mechatronics (output floating).

SPECIFICATIONS

Input voltage range Eac	85 to 115V, 170 to 253V selective-input voltage
Input frequency	47 to 66Hz
Operating temperature range	0 to +60°C [With derating over 40°C]
Withstand voltage Eac	1.5/2kV
Auxiliary functions	Overvoltage protection, Overcurrent protection

Output power (W)	Part No.	Output voltage (V)	Output current (A)	Efficiency (%)	Dimensions (mm) H×W×L	Weight (kg)
29(41)*	ECX-001	5	1	75	25×95×120	0.3
		24	1(1.5 peak, 10s)			
39	ECX-002	5	3	75	25×95×120	0.3
		24	1			
44(80)*	ECX-003	5	1.5	77	30×95×130	0.4
		24	1.5(3 peak, 10s)			
63	ECX-004	5	3	75	30×95×130	0.4
		24	2			
82(130)*	ECX-005	5	2	82	30×95×160	0.5
		24	3(5 peak, 10s)			
87	ECX-006	5	3	82	30×95×160	0.5
		24	3			
159(255)*	ECX-007	5	3	85	35×95×220	0.7
		24	6(10 peak, 10s)			

* () is peak power for 10 seconds max.



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.

AC INPUT POWER SUPPLIES

Multi-output, input voltage Eac: 90 to 264V and 85 to 264V

MRW and LRW series

ECX SERIES

Product Identifications

Input/Output terminals style	Open frame	With L-frame
Terminal block	ECX-00□A	ECX-00□D
Connector upright	ECX-00□B	ECX-00□E
Connector sideways	ECX-00□C	ECX-00□F

- Model 004 to 007 have no type A, B and C.
- Some models are order made.

MRW, LRW SERIES

FEATURES

- Warranty period is for 2 years.
- Wide input 3 outputs and open frame type.

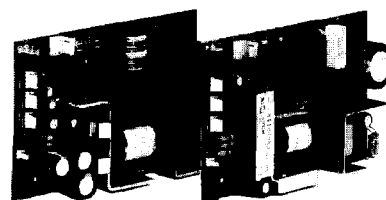
SPECIFICATIONS

Input voltage range Eac	90 to 264V, 85 to 264V (65W only)
Input frequency	47 to 66Hz
Operating temperature range	-10 to +60°C [With derating over 40°C]
Withstand voltage Eac	2kV
Auxiliary functions	Overvoltage protection, Overcurrent protection, Output power OK signal*

Safety standard	UL1950 CSA EB 1402C Certificated CSA C22.2 No.234 Certificated EN60950 (TÜV) Certificated
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Terminal noise voltage	Comforms FCC class B, VDE0871 class B
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* Applicable models: MRW-140/150/151/160/161



Output power (W)	Part No.	Output voltage (V)	Output current (A)	Efficiency (%)	Dimensions (mm) H×W×L	Weight (kg)
125.5	MRW-130	+5	1.5	73	35×80×100	0.22
		+12	1.5(1.7 peak, 10s)			
28	MRW-135	+5	2	73	35×80×120	0.3
		+12	1.5(2.5 peak, 3s)			
25.4	MRW-140*	+5	1	73	27×100×160	0.3
		+12	1.7			
	MRW-150	+5	2.2(4max.)	70	30×100×160	0.35
		+12	1.8(2.5max.)			
		-12	0.1(0.3max.)			
35	MRW-151	+5	2.2(4max.)	70	30×100×160	0.35
		+15	1.4(2max.)			
		-15	0.1(0.25max.)			
	MRW-160	+5	5(6max.)	75	38×100×160	0.5
		+12	2(2.5max.)			
		-12	0.1(0.5max.)			
50	MRW-161	+5	5(6max.)			
		+15	1.5(2max.)			
		-15	0.1(0.4max.)			

*No safety standards approve for MRW-140.

- Option: Frame, Cover, Cable kit



AC INPUT POWER SUPPLIES

Multi-output, input voltage Eac: 85 to 115V

JFK series

MRW, LRW SERIES

SPECIFICATIONS

Output power (W)	Part No.	Output voltage (V)	Output current (A)	Efficiency (%)	Dimensions (mm) H×W×L	Weight (kg)
65	MRW-170	+5	5(7max.)	70	38×100×160	0.45
		+12	1.7(2.5max.)			
		-12	1.7(2.5max.)			
	MRW-171	+5	5(7max.)			
		+15.8	1.3(2max.)			
		-15.8	1.3(2max.)			
40	MRW-350	+5	3	70	37×76×127	0.24
		+12	2			
		-12	0.1			
	MRW-351	+5	3			
		+15.6	1.6			
		-15	0.1			
	MRW-352	+3.3	4			
		+12	2			
28	LRW-135	-12	0.1	73	35×50×200	0.3
		+5	2			
		+12	1.5(2.5 peak, 3s)			

• Option: Frame, Cover, Cable kit

JFK SERIES

FEATURES

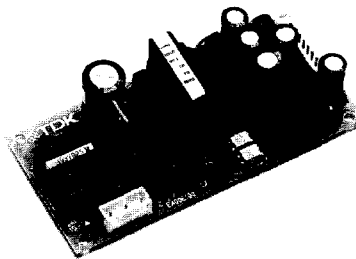
- Warranty period is for one year.
- 2 outputs in small open frame type.

SPECIFICATIONS

Input voltage range Eac	85 to 115V
Input frequency	47 to 66Hz
Operating temperature range	0 to +60°C [With derating over 50°C]
Withstand voltage Eac	1.5kV
Auxiliary functions	Overvoltage protection, Short circuit protection
Terminal noise voltage	Conforms VCCI class 2

Output power (W)	Part No.	Output voltage (V)	Output current (A)	Efficiency (%)	Dimensions (mm) H×W×L	Weight (kg)
11(17)*	JFK-010	+5	1	75	27×46×98	0.07
		+12	0.5(1 peak, 10s)			

* Peak power type. () is for 10 seconds max.



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