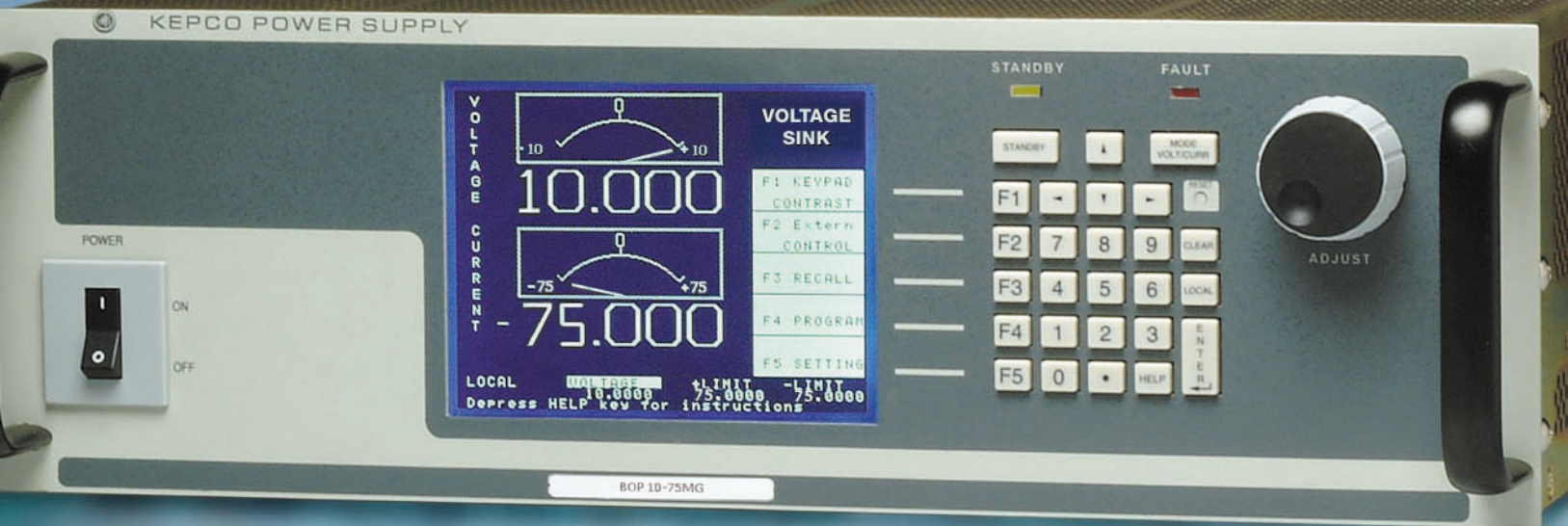
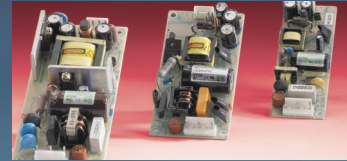


KEPCO || POWER SUPPLIES

Instrumentation and Modular Power Supplies
for System, Bench and the OEM



AN ISO 9001 COMPANY

KEPCO
THE POWER SUPPLIER™
SINCE 1946



The Kupferberg Family, owners of Kepco, Inc.: Max, Jesse, Saul, Martin, Seth, Mark and Jack.

Kepco is pleased and proud to present our latest catalog, which presents several new and exciting products along with many "old reliables," all of which will provide a lifetime of reliable service in your power supply application.

From the first Kepco Model 103, to the first all transistorized power supply, to the first fast programmable power supply, to the first bipolar (four-quadrant) power supply all the way to the products presented in this catalog, the founding Kupferberg family and Kepco's many experienced and capable employees have personally maintained a 56-year tradition of quality, innovation and customer service.

It is today's cliché to speak of a company's products and service as "world class." Kepco has been and continues to be committed to the philosophy of designing and manufacturing DC power supplies that meet and even exceed the requirements of the world market, long before "world class" became buzz words.

Our new products, such as the BOP High Power (Bipolar Operational Power Supply), the universal input, Power Factor Corrected RKW series and the low cost, universal input JBW series, are only the latest manifestations of this philosophy. Our network of sales representatives, our experienced internal customer service team, our Web Site (www.kepcopower.com), which features complete product specifications, downloadable service manuals, online ordering and much more and our worldwide network of servicing distributors all insure that Kepco's full support is available both before and after your purchase.

Whether your DC power supply needs are "rack and stack" instrumentation, bench-top, OEM switch-mode, ferroresonant or for a custom Power Assembly configured for your requirements, give us a call or check us out online.

We're ready to help.

Saul Kupferberg
Vice President Sales/Marketing
saulk@kepcopower.com



INDEX BY DESIGN GROUP

INSTRUMENTATION POWER SUPPLIES

DESIGN GROUP

UNIPOLAR POWER SUPPLIES

BHK-MG
40 & 200 Watts

ABC
100 Watts

ATE
50, 100, 250, 500 & 1000 Watts

SN-488, SNR 488, SN 488-B, SN 488-D

ATE-DMG
1000 Watts

JQE
100, 250, 500 & 1000 Watts

MAT
360, 720 & 1080 Watts

MPS
70 Watts

MSK
100 Watts

MST
200 Watts

BIPOLAR POWER SUPPLIES

BOP HIGH POWER
1000 Watts

BOP
100, 200 & 400 Watts

BIT

BOP-HV
40 Watts

DIGITAL INTERFACES

SPECIAL PURPOSE POWER SUPPLIES

HSF
50, 100, 150 & 350 Watts

HSP
1000 & 1500 Watts

PRR
1000 Watts

TBC
300, 600, 1500 & 3000 Watts

ACCESSORIES & HARDWARE

MODULAR POWER SUPPLIES

DESIGN GROUP

PROGRAMMABLE MODULES

RKW PROGRAMMABLE
300, 600 & 1500 Watts

HSM
1000 & 1500 Watts

PAT
20 Watts

PTR
50 Watts

COMMERCIAL GRADE POWER SUPPLIES

JBW
10, 15 & 30 Watts

RKW OPEN FRAME
30, 50, 100 & 150 Watts

FAW
15, 25, 50, 100 & 150 Watts

KRW
40 Watts

MRW
35, 50 & 65 Watts

INDUSTRIAL GRADE POWER SUPPLIES

ERD
30, 60 & 150 Watts

PRM
60, 120, 180, 280, 300 & 450 Watts

RAX
50, 100, 175 & 300 Watts

RCW
350, 750 & 1500 Watts

DIN-RAIL MOUNTING

POWER ASSEMBLY PROGRAM

MODELS CATALOGED ELSEWHERE

APH, CC/PCX-MAT, ERX
FAK, FCP/FMP, MBT

MODELS NO LONGER IN STANDARD PRODUCTION

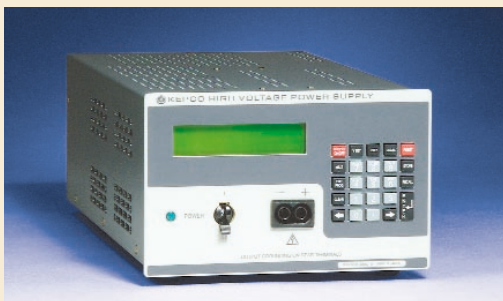
ECM, EFX, EMR, FPD, KFD
NTC, OPS, RAX 1500W, RBX, TLD

WHAT'S NEW



SERIES ATE-DMG.....

The ATE-DMG are a digitally-controlled version of the 1000 watt ATE-series power supply. A front panel keypad offers local control. External control is by the built-in GPIB. A 2-line LCD displays settings and actual outputs.



SERIES BHK-MG HALF RACK.....

BHK-MG are offered in two series, a 40 watt half rack design and a 200 watt full rack product. Both are high voltage models with a new linear MOSFET output stage. A GPIB interface and digital-control keypad are built-in, as is an LCD screen to display settings and actual output values. To retain backwards compatibility with the analog BHK models, the new BHK-MG have analog together with digital control capabilities. The half rack 40 watt models are modern replacements for Kepco's 20 watt APH series high voltage power supplies.



SERIES BOP HIGH POWER.....

The new BOP High Power models provide 1000 watts of bipolar 4-quadrant power. Like their linear cousins in the 100, 200 & 400 watt sizes, the High Power BOP are fully programmable as sources and sinks. Their switch-mode design offers high efficiency and energy recuperation while sinking maintains that efficiency over all 4 quadrants.



SERIES HSF 1U.....

The HSF are plug-in power modules for multi-output rack assemblies or redundant paralleling of multiple modules. The new 1U rack can house up to four 50-100 watt modules.

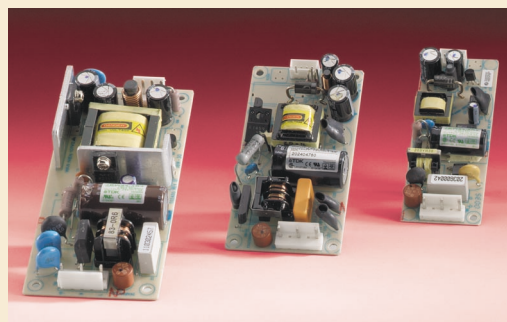


SERIES HSF 350 WATT.....

The 350 watt HSF plug-in modules rack 3-abreast or can be combined with smaller plug-in modules for do-it-yourself multi-output power racks.

SERIES JBW.....

JBW are comprised of three groups of affordable power supplies: 10, 15 and 30 watts in a PC card-style package. They offer fixed output voltages from 3.3 to 24V d-c for space and cost-sensitive OEMs. They operate from any a-c mains in the range 85-265 V a-c or a d-c input in the range 110-370V d-c.



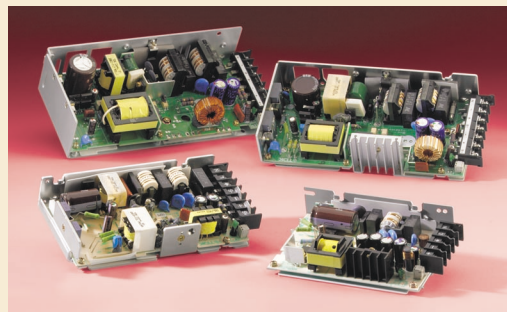
SERIES RKW PROGRAMMABLE.....

The programmable series RKW are industrial grade single-output power supplies in the 300, 600 & 1500 watt sizes. They provide single d-c outputs from 0-3.3V to 0-48 Volts from a-c mains of 85-265V a-c with Power Factor Correction (PFC). All models feature overvoltage and overcurrent protection, remote on-off and master-slave paralleling with current balance.



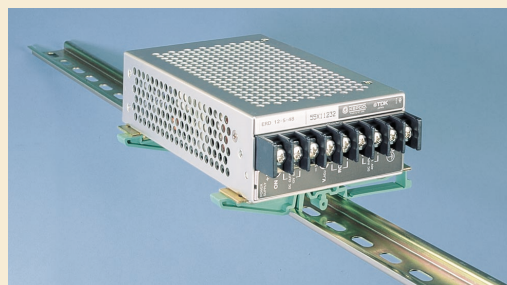
SERIES RKW OPEN FRAME.....

The open frame RKW are industrial grade single-output power supplies in the 30, 50, 100 & 150 watt sizes. They provide single d-c outputs from 3.3V to 48 Volts from a-c mains of 85-265V a-c and except for the 30 watt models are equipped with Power Factor Correction (PFC). They are convection cooled L-chassis construction with optional metal enclosures.



DIN-RAIL MOUNTING.....

Many Kepco power supplies may be equipped with clips for mounting in various positions on DIN-Rails.



INSTRUMENTATION || POWER SUPPLIES

UNIPOLAR POWER SUPPLIES

BIPOLAR POWER SUPPLIES

SPECIAL PURPOSE POWER SUPPLIES

ACCESSORIES & HARDWARE



PROGRAMMING CHARACTERISTICS								
	Design Group	Page Index	Analog Resistance	Analog Operational	Analog Fast	Digital RS 232	Multi-Instr. Serial Bus	Digital IEEE 488
UNIPOLAR	BHK-MG	15	•	•	•			•
	ABC	19						•
	ATE	22	•	•	•			• (1)
	ATE-DMG	28						•
	JQE	31	•	•				• (1)
	MAT	34				• (1)	•	• (1)
	MPS	36						
	MSK	38	•					
	MST	40				• (4)	•	• (4)
BIPOLAR	BOP HIGH	44	•	• (6)		•	•	•
	BOP	50	•	•	•	• (5)	• (2)	• (3)
	BOP-HV	56	•	•	•			• (1)
SPECIAL PURPOSE	HSF	62	•					
	HSP	67	•					
	PRR	72						
	TBC	74	•					

- (1) Requires the use of an external programming accessory.
 (2) Requires internal card BIT TMA-27.
 (3) Requires internal card BIT 4882 or BIT 4886.
 (4) Requires plug-in interface MST 488-27.
 (5) Requires internal card BIT 232.
 (6) Programmable by voltage, not isolated.

Kepco Instrumentation Power Supplies Characteristic Selection Charts

The five charts that follow summarize the principal characteristics of Kepco's instrumentation type power supplies.

Tables are included for their programming characteristics (analog and digital), their physical characteristics, electrical output characteristics plus output power and voltage ranges.

The purpose is to help you select an appropriate power supply for your application and to point you toward the correct pages in this catalog where a full description may be found.

The digitally controlled power supplies require some additional explanation as there are many modes of communication (RS 232, IEEE 488.2 and Kepco's single address, multiple instrument serial bus). A number of Kepco accessories translate between buses and link various power supplies to the common host computers used in test systems.



Kepco's facility in Flushing, New York, has received ISO 9001 certificate number 109592 from Lloyd's Register of Quality Assurance.



Model ABC - Bench Style



Model ATE- DMG - Rack Mount

Model BOP - CV/CL, CC/VL

Model BOP High Power - CV/CL, CC/VL



PHYSICAL CHARACTERISTICS

	Design Group	Page Index	Bench Style	Wall Mount	Rack Mount	Plug-in Rack
UNIPOLAR	BHK-MG	15	• (1)		•	
	ABC	19	•		•	
	ATE	22	• (2)		•	
	ATE-DMG	28			•	
	JQE	31	• (3)		•	
	MAT	34			•	•
	MPS	36	•		•	
	MSK	38	•		•	
	MST	40				•
BIPOLAR	BOP HIGH	44			•	
	BOP	50	•		•	
	BOP-HV	56			•	
SPECIAL PURPOSE	HSF	62				•
	HSP	67			•	•
	PRR	72			•	
	TBC	74		•	•	

(1) 40W models are half rack/bench style.

(2) 1/4, 1/2 and 3/4 rack models are rack/bench style.

(3) 1/4 and 1/2 rack models are rack/bench style.

ELECTRICAL OUTPUT CHARACTERISTICS

	Design Group	Page Index	CV/CL (1)	CC/VL (1)	CV/CC (1) (Autocrossover)	Fast Voltage Slew (2)
UNIPOLAR	BHK-MG	15			•	•
	ABC	19			•	
	ATE	22			•	•
	ATE-DMG	28			•	
	JQE	31	•			
	MAT	34			•	
	MPS	36	•			
	MSK	38			•	
	MST	40			•	
BIPOLAR	BOP HIGH	44	•	•		
	BOP	50	•	•		•
	BOP-HV	56	•	•		•
SPECIAL PURPOSE	HSF	62	•			
	HSP	67	•			
	PRR	72	•			
	TBC	74	•			

(1) CV/CL = Constant Voltage/Current Limit.

CV/CC = Constant Voltage/Constant Current (a design referred to as Automatic Crossover).

CC/VL = Constant Current/Voltage Limit.

(2) Fast voltage slewing capability makes possible true constant current operation with fast recovery.

POWER RANGE WATTS												
	Design Group	Page Index	10	20	50	100	200	500	1000	2000		
UNIPOLAR	BHK-MG	15										
	ABC	19										
	ATE	22										
	ATE-DMG	28										
	JQE	31										
	MAT	34										
	MPS	36										
	MSK	38										
	MST	40										
BIPOLAR	BOP HIGH	44										
	BOP	50										
	BOP-HV	56										
SPECIAL PURPOSE	HSF	62										
	HSP	67										
	PRR	72										
	TBC	74										



Model HSF - 50-350 Watt



Model MST - 200 Watt

VOLTAGE RANGE (0 to ____) VOLTS												
	Design Group	Page Index	10	20	50	100	200	500	1000	2000		
UNIPOLAR	BHK-MG	15										
	ABC	19										
	ATE	22										
	ATE-DMG	28										
	JQE	31										
	MAT	34										
	MPS	36										
	MSK	38										
	MST	40										
BIPOLAR	BOP HIGH	44										
	BOP	50										
	BOP-HV	56										
SPECIAL PURPOSE	HSF	62										
	HSP	67										
	PRR	72										
	TBC	74										

Model BHK-MG - 0-2000V



Model HSP - 3.3~ 48V



MODULAR POWER SUPPLIES

PROGRAMMABLE MODULES

COMMERCIAL GRADE POWER SUPPLIES

INDUSTRIAL GRADE POWER SUPPLIES



OUTPUT ADJUSTMENT CHARACTERISTICS						
	Design Group	Page Index	Fixed Output Not Adjustable	Trim Adjustment	Analog Remote Trim	Programmable
PROGRAMMABLE MODULES	RKW PROGRAMMABLE	83		•	•	•
	HSM	89		•	•	• (3)
	PAT	93		•	•	•
	PTR	93		•	•	•
COMMERCIAL GRADE	JBW	96	•	• (2)		
	RKW OPEN FRAME	99		•	• (4)	
	FAW	105		•	• (5)	
	KRW	108		• (1)		
	MRW	108		• (1)		
INDUSTRIAL GRADE	ERD	113		•	•	
	PRM	116	•			
	RAX	121		•	•	
	RCW	125		•	•	• (3)

(1) Adjusts principal output only of multi-output models.

(2) 3.3V models only.

(3) See specifications for range of control.

(4) Except 30W models.

(5) Except 15 and 25W models.

Kepeco Modular Power Supplies Characteristic Selection Charts

The six charts that follow summarize the principal characteristics of Kepeco's modular type power supplies.

Tables are included for their output adjustment abilities, physical characteristics, input and output characteristics, power rating and warranty/safety/EMI features. As these power supplies include a-c to d-c units, as well as d-c to d-c converters, and encompass box-type power units as well as low-cost PC card models, it requires a good deal more information than simply knowing the desired voltage and current to make an appropriate choice.

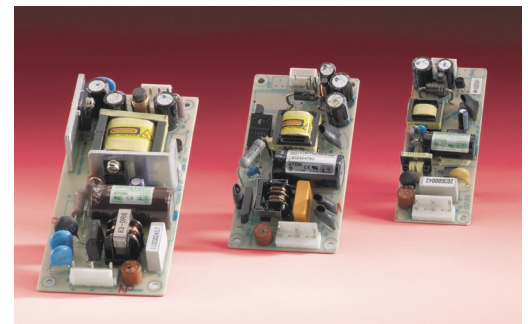
Most groups include models in approximately the same voltage ranges: 3.3V, 5V, 12V, 15V, 24V, 28V and 48V. We have especially tried to make the range of adjustment wide enough so that, for example, 15V models are suitable for 13.8V application and 24V models can function at 20V, etc.

If you don't see exactly what you are looking for in the tables that follow, give us a call.

PHYSICAL CHARACTERISTICS							
	Design Group	Page Index	Enclosed	Card or L-Chassis	PC Card Mount	Optional Cover	Low Profile
PROGRAMMABLE MODULES	RKW PROGRAMMABLE	83	•				
	HSM	89	•				
	PAT	93	•				
	PTR	93	•				
COMMERCIAL GRADE	JBW	96			•		•
	RKW OPEN FRAME	99		•		•	•
	FAW	105		•		•	•
	KRW	108		•		•	•
	MRW	108		•		•	•
INDUSTRIAL GRADE	ERD	113	•				
	PRM	116	• (1)			• (2)	
	RAX	121	•				
	RCW	125	•				

(1) Size B and D.

(2) Size A, AA and C.



Model JBW - PC Card mount



Model RKW - Enclosed

Kepco, Inc. has, since 1976, marketed selected switch-mode power supplies made by the TDK Electronics Corporation. We are proud that TDK's facilities have received certificates by various agencies to recognized Quality Standards. TDK-Taiwan, for example, has been awarded Lloyd's Register Quality Assurance Certificate of Approval to ISO 9002-1987, EN29002-1987 and CNS 12682 Z4035:1990, Certificate #923297. This facility is approved by BABT.

TDK also has approval by the British Approvals Board for Telecommunications, BABT. Additionally JMI (Japan Materials Institute) has issued a certificate of registration (JMI 0006) for approval under ISO 9001-1987/BS 5750 and EN29001-1987.



The quality management system represented by these certificates are your assurance of a world-class product, produced under critically controlled quality procedures and backed by a Kepco limited warranty that protects instrumentation products and industrial grade switchers for five (5) full years and commercial grade OEM products for one (1) year.

Kepco's facility in Flushing, New York, has received ISO 9001 certificate number 109592 from Lloyd's Register of Quality Assurance.



INPUT CHARACTERISTICS

	Design Group	Page Index	PFC	115V a-c	115-230 Wide Range	115-230 Selectable	230V a-c	d-c Input					
								12V	24V	28V	48V	60V	150V
PROGRAMMABLE MODULES	RKW PROGRAMMABLE	83	•		•								•
	HSM	89	•		•								•
	PAT	93				•							
	PTR	93				•							
COMMERCIAL GRADE	JBW	96			•								•
	RKW OPEN FRAME	99	• ⁽³⁾		•								•
	FAW	105			•								•
	KRW	108			•								•
	MRW	108			•								•
INDUSTRIAL GRADE	ERD	113						•	• ⁽²⁾	•			
	PRM	116		•			• ⁽¹⁾						
	RAX	121				•							
	RCW	125	•		•								•

(1) -50 models for 230V a-c 50Hz. Derate to 80% of rated current.

NOTE: HSM, RCW, RKW, FAW, KRW and MRW have safety agency approval for a-c input only. They also operate from d-c input, but their fuse is not agency-approved for d-c input.

(2) ERD input range:20-30V and 40-56V d-c.

(3) Except 30W RKW.



SAFETY/WARRANTY CHARACTERISTICS

	Design Group	Page Index	UL RECOGNIZED	UL/CSA RECOGNIZED	CSA CERTIFIED	TÜV APPROVED	VDE APPROVED	Conducted EMI		1 YEAR WARRANTY	5 YEAR WARRANTY
								Class A	Class B		
PROGRAMMABLE MODULES	RKW PROGRAMMABLE	83		•		•			• ⁽²⁾		•
	HSM	89	•	•			•	•			•
	PAT	93						NA ⁽³⁾	NA ⁽³⁾		•
	PTR	93						NA ⁽³⁾	NA ⁽³⁾		•
COMMERCIAL GRADE	JBW	96	•		•	•			•	•	
	RKW OPEN FRAME	99		•		•			•	•	
	FAW	105	•		•	•				•	
	KRW	108	•		•	•			•	•	
	MRW	108	•		•	•			•	•	
INDUSTRIAL GRADE	ERD	113	•		•				•		•
	PRM	116	• ⁽¹⁾						• ⁽⁴⁾		•
	RAX	121	•		•	•		•			•
	RCW	125	•		•	•		•	• ⁽⁵⁾		•

(1) Selected models.

(2) RKW 1500W models Class A, use external filter for Class B.

(3) PAT and PTR are linear stabilizers, not switchers.

(4) ERD are d-c to d-c converters. Meet conducted EMI of MIL STD 461B.

(5) 350W models only.

ELECTRICAL OUTPUT CHARACTERISTICS

	Design Group	Page Index	a-c to d-c Single Output	a-c to d-c Multiple Output	d-c to d-c Single Output
PROGRAMMABLE MODULES	RKW PROGRAMMABLE	83	•		
	HSM	89	•		
	PAT	93	•		
	PTR	93	•		
COMMERCIAL GRADE	JBW	96	•		
	RKW OPEN FRAME	99	•		
	FAW	105	•		
	KRW	108		•	
	MRW	108		•	
INDUSTRIAL GRADE	ERD	113			•
	PRM	116	•	•	
	RAX	121	•		
	RCW	125	•		



Model PAT/PTR
a-c to d-c single output
Programmable linear voltage stabilizers

POWER RANGE WATTS

	Design Group	Page Index	1	2	5	10	20	50	100	200	500	1000	2000	5000W
PROGRAMMABLE MODULES	RKW PROGRAMMABLE	83												
	HSM	89												
	PAT	93												
	PTR	93												
COMMERCIAL GRADE	JBW	96												
	RKW OPEN FRAME	99												
	FAW	105												
	KRW	108												
	MRW	108												
INDUSTRIAL GRADE	ERD	113												
	PRM	116												
	RAX	121												
	RCW	125												



Model RAX
50~300 watts

KEPCO || POWER SUPPLIES

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