RETURN TO INDEX

# Kepco Modular Power Supplies Characteristic Selection Charts

**The six charts that follow summarize the principal characteristics of Kepco'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.

## OUTPUT ADJUSTMENT CHARACTERISTICS

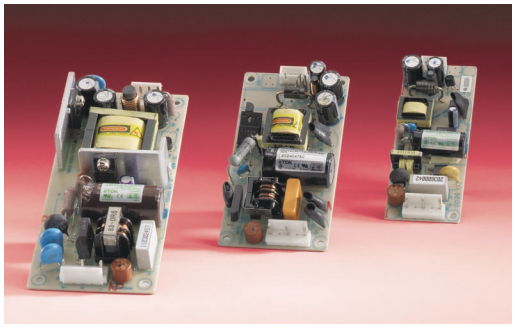
| | Design Group | Page Index | Fixed Output Not Adjustable | Trim Adjustment | Analog Remote Trim | Programmable |
|---|---|---|---|---|---|---|
| PROGRAMMABLE MODULES | RKW PROGRAMMABLE | 83 | | • | • | • |
| | HSM | 89 | | • | • | • (3) |
| | PAT | 93 | | • | • | • |
| | PTR | 93 | | • | • | • |
| 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.

## 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 Select-able | 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 Class A | Conducted EMI Class B | 1-YEAR WARRANTY | 5-YEAR WARRANTY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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.

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KEPCO®
THE POWER SUPPLIER™
SINCE 1946


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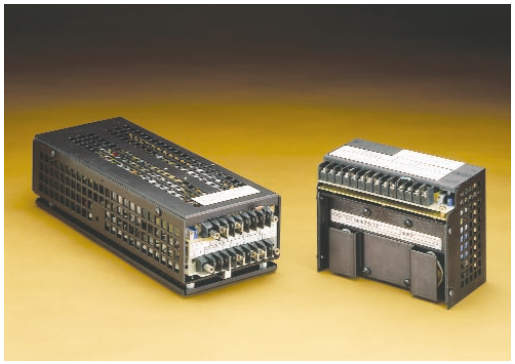
## ELECTRICAL OUTPUT CHARACTERISTICS

| | 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

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