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Data Sheet
August 13, 2026

KENWOOD

Kenwood PS20-18

Kenwood PS20-18 Switching DC Power Supply 0 to 20 V 18 A The Kenwood PS20-18 isaPS-series switching CV/CC DC supply, 0 to 20 V and 0 to 18 A (360 W). CV ripple 10 mVrms. Line regulation 0.05 percent plus 5 mV; load 0.1 percent plus 5 mV. Transient 1 ms. Rise/fall 80/150 ms full load. CC ripple 40 mArms; line/load 0.2 percent plus 5 mA. Typelchassis 70 × 124 × 350.5 mm, about 3.0 kg. Input current 8 A / 5 A at 100/200 V. Digital 3.5-digit LED meters (V 0.1 percent plus 2 digits; I 0.5 percent plus 3 digits at 23 plus/minus 5 C). AC 85-132 / 170-250 Vac 50-60 Hz. OVP/OCP/OTP as PS family. Forced-air front intake. Operating 0-50 C. The Kenwood PS20-18 isaPS-series switching CV/CC DC supply, 0 to 20 V and 0 to 18 A (360 W). CV ripple 10 mVrms. Line regulation 0.05 percent plus 5 mV; load 0.1 percent plus 5 mV. Transient 1 ms. Rise/fall 80/150 ms full load. CC ripple 40 mArms; line/load 0.2 percent plus 5 mA. Typelchassis 70 × 124 × 350.5 mm, about 3.0 kg. Input current 8 A / 5 A at 100/200 V. Digital 3.5-digit LED meters (V 0.1 percent plus 2 digits; I 0.5 percent plus 3 digits at 23 plus/minus 5 C). AC 85-132 / 170-250 Vac 50-60 Hz. OVP/OCP/OTP as PS family. Forced-air front intake. Operating 0-50 C. Instrument Type: Switching DC power supply CV CC

MODEL **Kenwood PS20-18**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **PS20-18**	LISTING **https://aumictechlabs.com/products/ps20-18-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kenwood PS20-18 is a variable switching power supply delivering stable, regulated DC output across laboratory, testing, and development environments. This constant voltage/constant current (CV/CC) unit operates at 0–20 V DC with a maximum output current of 18 A and 360 W rated power. Its compact, lightweight design incorporates advanced switching topology and digital LED displays for real-time voltage and current monitoring. Comprehensive protection includes output over-voltage protection (OVP) at ~110% rated voltage, over-current protection (OCP) at ~110–130% rated current, over-heat protection (OHP) at ~100±5°C, and input power abnormality detection with fail-safe shutdown. Remote voltage sensing, external voltage control, and external current control enable flexible integration into automated test systems. The unit accepts 120 or 220/240 VAC input (50/60 Hz) and features input surge current reduction and alarm signaling for power faults. Technical Specifications Output Voltage: 0–20 V DC Maximum Output Current: 18 A Rated Power: 360 W Input Supply: 120 or 220/240 VAC, 50/60 Hz Type: Variable switching power supply (CV/CC) Manufacturer: Kenwood (Japan) Key Features Digital 7-segment red LED displays for voltage and current readout Output over-voltage protection tripping at ~110% rated voltage Over-current protection at ~110–130% rated current Thermal shutdown at heat sink temperature ~100±5°C Input power abnormality detection with automatic output disable Rush current limiting on power-on Fail-safe operational design Remote voltage sensing capability External voltage control input External current control input Power abnormality alarm signal Typical Applications Laboratory power supply for component testing, circuit development, and bench-level validation. Suitable for equipment requiring stable DC output with programmable current and voltage limits. Compatibility & Integration Optional GP-IB remote control via the GP-600 accessory, conforming to IEEE 488.1-1978 with interface functions SH1, AH1, T6, L3, SR1, RL1, PP0, DC1, DT1, C0. Configurable GP-IB address support. External control inputs permit analog voltage-based output modulation and current limiting without direct instrument access.

PS20 Characteristics / Specifications

PARAMETER	VALUE
Model	PS20-18
Manufacturer	Kenwood
Instrument Type	Switching DC power supply CV CC
Series	PS
Alias	PS 20-18; PS20-18
Output Voltage	0 to 20 V
Output Current	0 to 18 A
Output Power	360 W
Ripple CV	10 mVrms
Line Regulation CV	0.05 percent plus 5 mV
Load Regulation CV	0.1 percent plus 5 mV
Transient Response	1 ms
Rise Fall Full Load	80 / 150 ms
Ripple CC	40 mArms
Line Regulation CC	0.2 percent plus 5 mA
Load Regulation CC	0.2 percent plus 5 mA
Chassis Type	I
Outline Type I	70 (W) x 124 (H) x 350.5 (D) mm
Weight	approx 3.0 kg
Input Current	8 A / 5 A (100/200 V)
AC Input	85 to 132 V / 170 to 250 V 50 to 60 Hz
Voltmeter	3.5 digit red LED 0.1 percent rdg plus 2 digits (23 plus/minus 5 C)
Ammeter	3.5 digit red LED 0.5 percent rdg plus 3 digits (23 plus/minus 5 C)
OVP	relay at about 110 percent of rated voltage
OCP	relay at about 110 to 130 percent of rated current

PARAMETER	VALUE
OTP	relay at heatsink about 100 plus/minus 5 C
Cooling	forced air front intake
Operating Temperature	0 to 50 C
Operating Humidity	30 to 80 percent RH
Related PS20	PS20-54 Type III 0-54 A 1080 W
Form	PS TypeIswitching
Status	Kenwood PS 20 V 18 A Notes Specs from Kenwood PS20-18 table (0-20 V, 0-18 A, 10 mVrms, 40 mA CC, Type I 3.0 kg, 8/5 A). Confirm 100/200 V range switch.
Humidity	30 to 80 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	30 to 80 percent RH
Operating Humidity	30 to 80 percent RH
Related PS20	PS20-54 Type III 0-54 A 1080 W
Form	PS Typelswitching
Status	Kenwood PS 20 V 18 A Notes Specs from Kenwood PS20-18 table (0-20 V, 0-18 A, 10 mVrms, 40 mA CC, Type I 3.0 kg, 8/5 A). Confirm 100/200 V range switch.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	PS20-18
Manufacturer	Kenwood
Instrument Type	Switching DC power supply CV CC

Specifications

PARAMETER	VALUE
Series	PS
Alias	PS 20-18; PS20-18
Output Voltage	0 to 20 V

Specifications

PARAMETER	VALUE
Output Current	0 to 18 A
Output Power	360 W
Ripple CV	10 mVrms

Specifications

PARAMETER	VALUE
Line Regulation CV	0.05 percent plus 5 mV
Load Regulation CV	0.1 percent plus 5 mV
Transient Response	1 ms

Specifications

PARAMETER	VALUE
Rise Fall Full Load	80 / 150 ms
Ripple CC	40 mArms
Line Regulation CC	0.2 percent plus 5 mA

Specifications

PARAMETER	VALUE
Load Regulation CC	0.2 percent plus 5 mA
Chassis Type	I
Outline Type I	70 (W) x 124 (H) x 350.5 (D) mm

Specifications

PARAMETER	VALUE
Weight	approx 3.0 kg
Input Current	8 A / 5 A (100/200 V)
AC Input	85 to 132 V / 170 to 250 V 50 to 60 Hz

Specifications

PARAMETER	VALUE
Voltmeter	3.5 digit red LED 0.1 percent rdg plus 2 digits (23 plus/minus 5 C)
Ammeter	3.5 digit red LED 0.5 percent rdg plus 3 digits (23 plus/minus 5 C)
OVP	relay at about 110 percent of rated voltage

Specifications

PARAMETER	VALUE
OCP	relay at about 110 to 130 percent of rated current
OTP	relay at heatsink about 100 plus/minus 5 C
Cooling	forced air front intake

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 50 C
Operating Humidity	30 to 80 percent RH
Related PS20 36	PS20-36 Type II 0-36 A 720 W

Specifications

PARAMETER	VALUE
Related PS20 54	PS20-54 Type III 0-54 A 1080 W
Form	PS TypeIswitching
Status	Kenwood PS 20 V 18 A

Notes

Specs from Kenwood PS20-18 table (0-20 V, 0-18 A, 10 mVrms, 40 mA CC, Type I 3.0 kg, 8/5 A). Confirm 100/200 V range switch.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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