DC VOLTAGE STANDARD
N4-21

KRET

NNRPA
n.a. M.V. FRUNZE

GENERAL PARAMETERS

1. Supply package:	Power Supply / Control unit; Measuring unit; Cryogenic unit; Laptop computer with software; Interconnecting cables set.
2. Input AC voltage:	220 V ± 10 %; 48 to 52 Hz
3. Power consumption: at intercomparison / calibration mode at standby (data storage) / measuring mode	 ≤ 100 W ≤ 60 W
4. Environmental requirements: Temperature: Operating Storage	 +20 to +25 °C +5 to +50 °C
Humidity: Operating Storage	 up to 80 % at 25 °C up to 98 % at 25 °C
Atmospheric pressure: Operating Storage	 84 to 106 kPa (630 to 795 mm Hg) 12 to 106 kPa (90 to 795 mm Hg)
5. Dimensions: Power Supply / Control Unit Measuring Unit Cryogenic Unit	 450×500×140 mm 450×500×140 mm 450×500×185 mm
6. Weight Power Supply / Control Unit Measuring Unit Cryogenic Unit	 ≤ 20 kg ≤ 21 kg ≤ 18 kg
7. Standard warranty period	24 months

PERFORMANCE PARAMETERS

1. Output voltage relative instability (1 year specification)	$\leq 5 \times 10^{-8}$
2. Reference (output) voltage rated values	0.1 to 10 V; 1.018 V
3. Reference (output) voltage trim range	0.1 V
4. Output impedance	500 Ohms
5. Built-in nanovoltmeter measuring ranges (at intercomparison / calibration mode)	150 μV and 25 mV
6. Built-in nanovoltmeter measuring accuracy (at intercomparison / calibration mode): at 150 μV at 25 mV	 ± 0.0017 μV ± 0.25 μV

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