

[Home](#) > Product Details

AD960



Features

- User-selectable input voltage(AC85 - 132V/AC170 - 264V) (AD240, 480)
- Built-in Inrush Current Protection
- Small size and light
- Parallel and Master-Slave operation
- Built-in Over Current Protection
- Built-in Over Voltage Protection
- RoHS Compliant

Safety Agency Approvals

UL-60950-1, CSA22.2 No 234, EN60950-1, VD0160 Complies with IEC950

EMI Compliance

FCC-A (AD960)

2 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
AD960-24	DC 240 - 370	960	24V
	AC 170 - 264		20 - 40A (peak 40A)
AD960-30	DC 240 - 370	960	30V
	AC 170 - 264		16 - 32A (peak 32A)



① Series name
② Output wattage
③ Output voltage

RoHS : Please consult us for details

Please refer to derating curve, because the rated load current depends on cooling method that is convection cooling or forced air.

MODEL	AD960-24	AD960-30
MAX OUTPUT WATTAGE[W]	960	960
DC OUTPUT	Forced air 24V 40A	30V 32A
	Convection 24V 20(Peak 40)A	30V 16(Peak 32)A

SPECIFICATIONS

	MODEL	AD960-24	AD960-30
INPUT	VOLTAGE[V]	AC170 - 264 1 ϕ or DC240 - 370	
	FREQUENCY[Hz]	47 - 440 or DC	
	EFFICIENCY[%]	85typ	85typ
	INRUSH CURRENT[A] ACIN 200V	60typ (Io=100%)	
	LEAKAGE CURRENT[mA]	1.0max (60Hz, According to UL, CSA, VDE and DEN-AN)	
OUTPUT	VOLTAGE[V]	24	30
	CURRENT[A]	Forced air 40	32
		Convection *1 20 (Peak 40)	16 (Peak 32)
	LINE REGULATION[mV]	200max	260max
	LOAD REGULATION[mV]	340max	420max
	RIPPLE[mVp-p] -10 to +45°C *2	240max	240max
	RIPPLE NOISE[mVp-p] -10 to +45°C *2	480max	480max
	TEMPERATURE REGULATION[mV] -10 to +45°C	420max	520max
	DRIFT[mV] *3	100max	120max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	22.8 - 26.4	28.5 - 33.0
	START-UP TIME[ms]	600max (ACIN 200V, Io=100%)	
	HOLD-UP TIME[ms]	15typ (ACIN 200V, Io=100%)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating	
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)	
	INPUT-FG	AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +65°C, 10 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 10 - 90%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, CSA C22.2 No.234, EN60950-1, VDE0160 Complies with IEC950	
	CONDUCTED NOISE	Complies with FCC-A	
OTHERS	CASE SIZE/WEIGHT	89 × 141.6 × 230mm (without terminal block) (W × H × D) /3.0kg max	
	COOLING METHOD	Forced air/Convection	

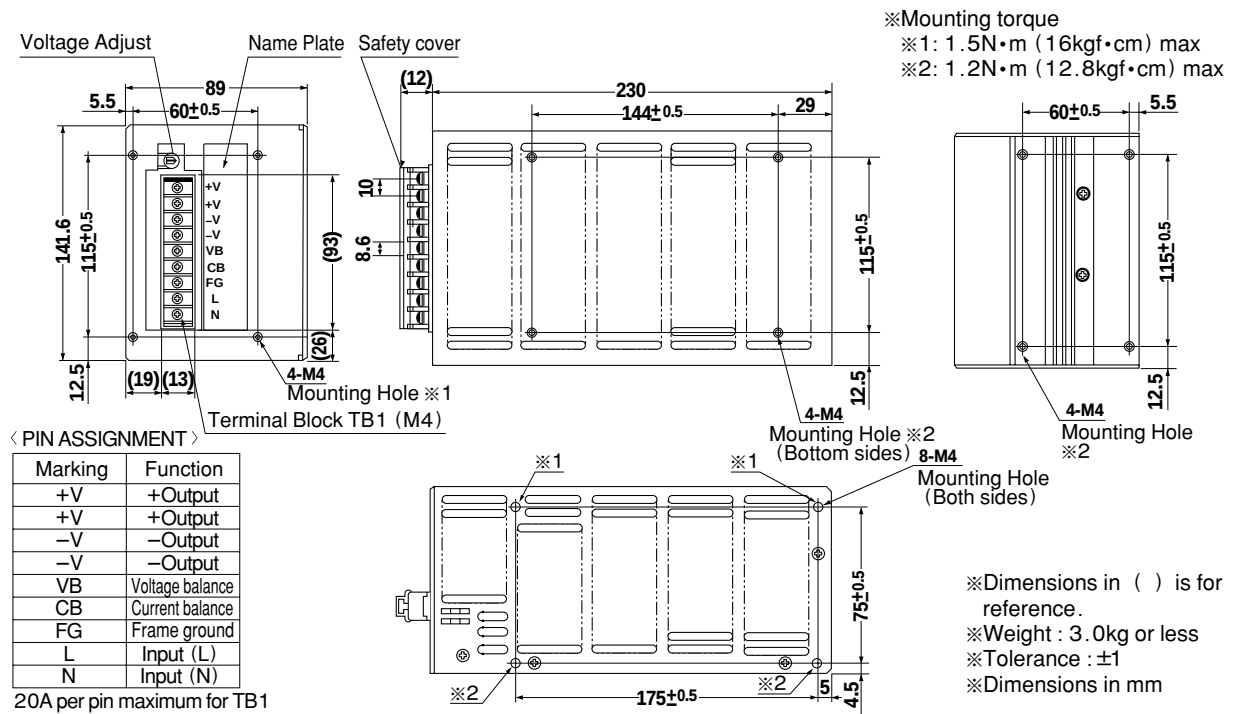
*1 For convection cooling, peak current for 10 seconds or less is acceptable, and output current must be less than 20A on average.

*2 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).

*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

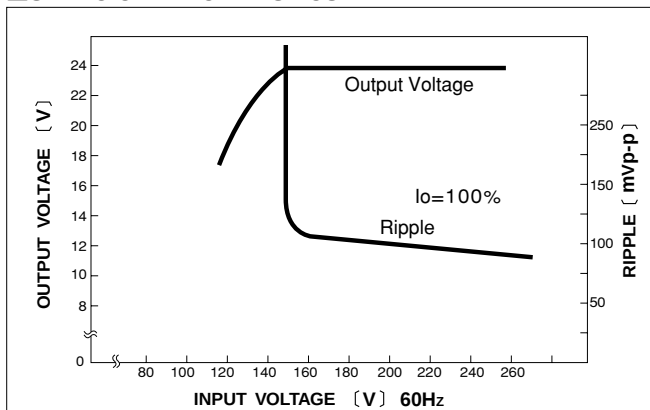
* When operated at pulse load, attach external capacitor at output line which is complying with the peak value of pulse current.

External view

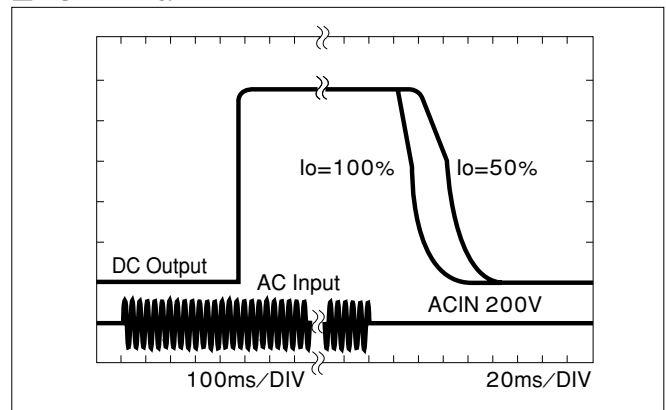


Performance data

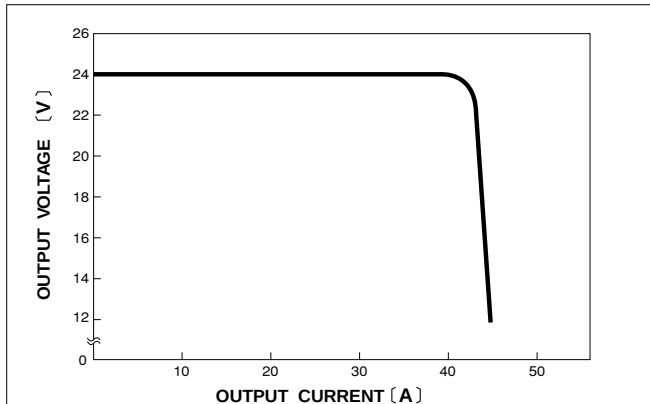
■STATIC CHARACTERISTICS



■RISE TIME & FALL TIME



■OVERCURRENT CHARACTERISTICS



■DERATING CURVE

