

UAW500S



Features

- Autoranging input
- UL recognized, TV approved, CSA certified
- Built-in Inrush Current Protection
- Remote sensing
- Parallel and Master-Slave operation
- Thin profile
- Built-in Over Current Protection
- Built-in Over Voltage Protection
- RoHS Compliant

Safety Agency Approvals

UL1950, CSA C22.2 No.234, EN60950, VDE0160

EMI Compliance

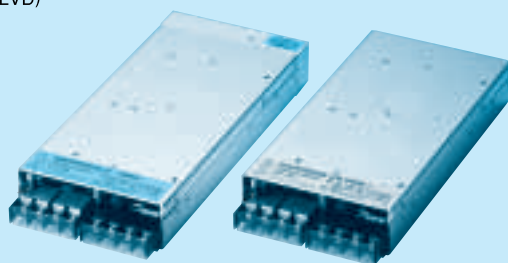
- FCC-B
- CISPR22-B
- EN55022-B
- VCCI-B

3 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
UAW500S-3	AC 85 - 264	300	3V 100A
UAW500S-5	AC 85 - 264	500	5V 100A
UAW500S-12	AC 85 - 264	516	12V 43A
UAW500S-24	AC 85 - 264	528	24V 22A



RoHS



RoHS : Please consult us for details

The forced air with the fan is necessary.

- ① Series name
 ② Autoranging input
 ③ Output wattage
 ④ Single output
 ⑤ Output voltage
 ⑥ Optional
 C : with Coating
 F : with Fan unit
 G : Low leakage current

MODEL	UAW500S-3	UAW500S-5	UAW500S-12	UAW500S-24
MAX OUTPUT WATTAGE[W]	300	500	516	528
DC OUTPUT	3V 100A	5V 100A	12V 43A	24V 22A

SPECIFICATIONS

	MODEL	UAW500S-3	UAW500S-5	UAW500S-12	UAW500S-24	
INPUT	VOLTAGE[V]	AC85 - 132 / 170 - 264 1ϕ (Auto-selectable)				
	CURRENT[A]	ACIN 100V	12typ (Io=100%)			
		ACIN 200V	6.5typ (Io=100%)			
	FREQUENCY[Hz]	50/60 (47 - 63)				
	EFFICIENCY[%]	70typ	77typ	80typ	83typ	
	INRUSH CURRENT[A]	ACIN 100V	15/40typ (Io=100%) (Primary Surge Current/Secondary Surge Current)			
		ACIN 200V	30/40typ (Io=100%) (Primary Surge Current/Secondary Surge Current)			
	LEAKAGE CURRENT[ma]	0.75max (60Hz, According to UL, CSA and VDE)				
OUTPUT	VOLTAGE[V]	3	5	12	24	
	CURRENT[A]	100	100	43	22	
	LINE REGULATION[mV]	40max	40max	80max	100max	
	LOAD REGULATION[mV]	80max	80max	120max	160max	
	RIPPLE[mVp-p]	0 to +50℃ *1	100max	100max	120max	120max
		-10 - 0℃ *1	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max
		-10 - 0℃ *1	180max	180max	200max	200max
	TEMPERATURE REGULATION[mV]	40max	50max	160max	200max	
	DRIFT[mV]	*2 12max	20max	48max	96max	
	START-UP TIME[ms]	800max (ACIN 85/170V, Io=100%)				
	HOLD-UP TIME[ms]	10typ (ACIN 85/170V, Io=100%) 20typ (ACIN 100/200V, Io=100%)				
PROTECTION CIRCUIT AND OTHERS	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.6	+10%, -5%			
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION	4.00 - 5.25V	Works at 115 - 140% of rating			
	OPERATING INDICATION	LED (Green)				
	REMOTE SENSING	Provided				
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)				
	INPUT-FG	AC2,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)				
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)				
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-10 to +60℃, 10 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
	STORAGE TEMP.,HUMID.AND ALTITUDE	-20 to +75℃, 10 - 90%RH (Non condensing), 9,000m (30,000feet) max				
	VIBRATION	10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT	196.1m/s² (20G), 11ms, once each X, Y and Z axis				
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, CSA C22.2 No.234, EN60950-1, EN50178 Complies with IEC60950-1				
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
OTHERS	CASE SIZE/WEIGHT	140×45×278 (308) mm (without terminal block) (W×H×D) /2.4kg max, 2.6kg max (with fan unit)				
	COOLING METHOD	Forced air				

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

*2 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.

External view

<PIN CONNECTION>

TB1

Marking	Function
AC1	Input(L)
AC2	Input(N)
NC	
FG	Frame ground

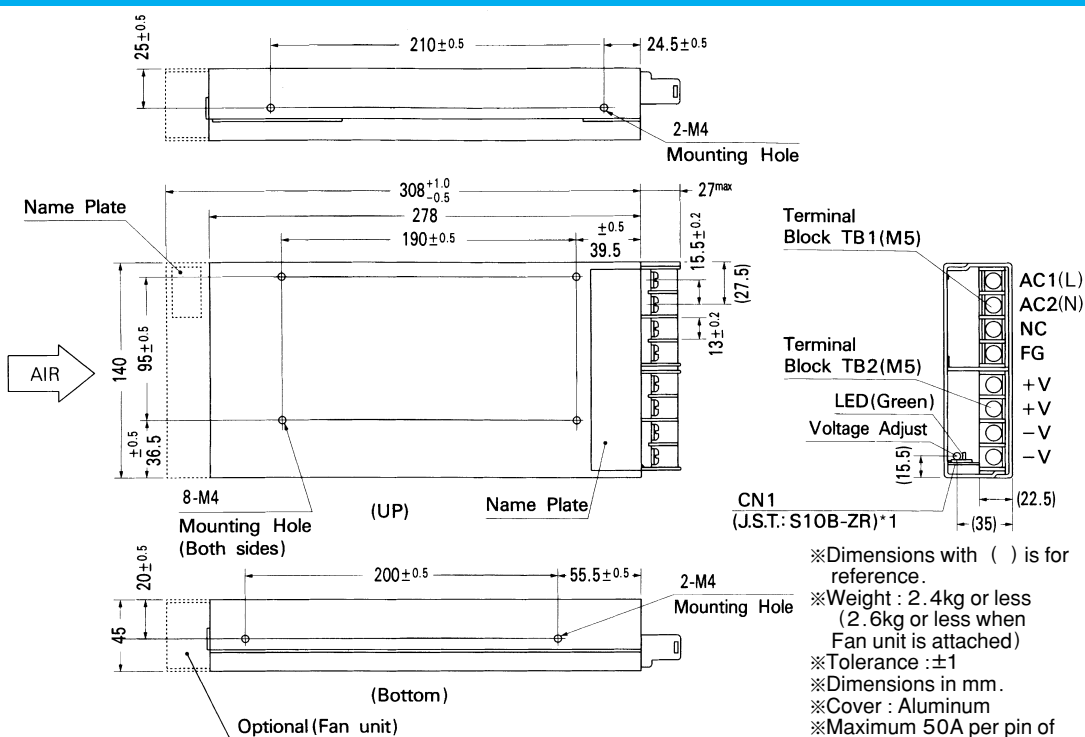
TB2

Marking	Function
+V	+Output
+V	+Output
-V	-Output
-V	-Output

CN1 *A* means connection is not possible.

Pin	No.
1	A
2	A
3	A
4	-M
5	-S
6	+M
7	A
8	+S
9	VB
10	CB

I/O Connector	Mating Connector	Terminal
CN1 S10B-ZR	ZHR-10	Chain: SZH-002T-P0.5 Loose: BZH-002T-P0.5 (Mfr. J. S. T.)



※Dimensions with () is for reference.

※Weight : 2.4kg or less
(2.6kg or less when Fan unit is attached)

※Tolerance : ±1

※Dimensions in mm.

※Cover : Aluminum

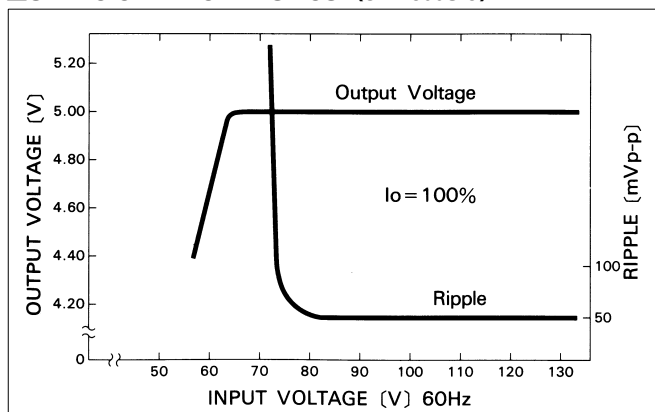
※Maximum 50A per pin of TB2.

*1 when shipment, connector for -M, -S and +M, +S is attached.

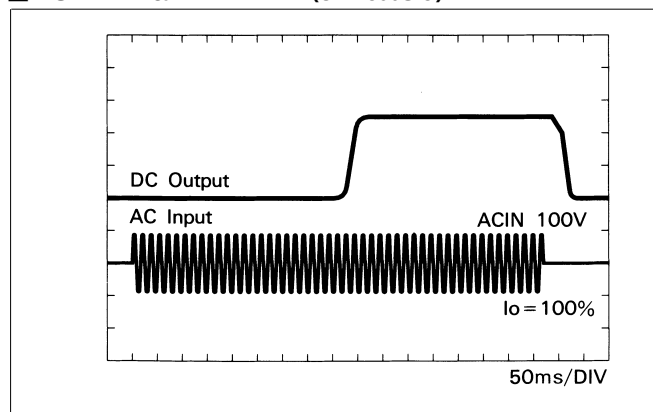
※Mounting torque:
1.2N·m (12.8kgf·cm) max

Performance data

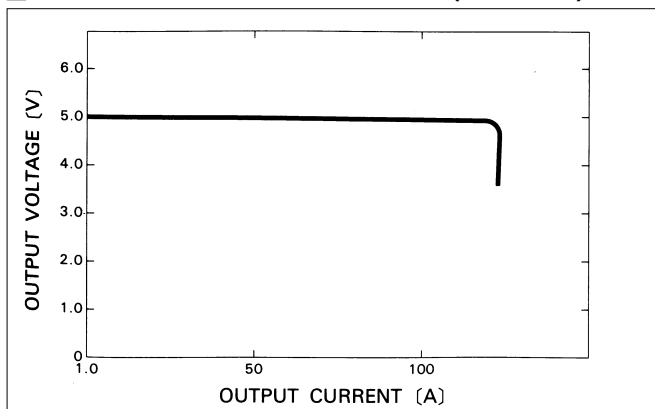
■STATIC CHARACTERISTICS (UAW500S-5)



■RISE TIME & FALL TIME (UAW500S-5)



■OVERCURRENT CHARACTERISTICS (UAW500S-5)



■DERATING CURVE

