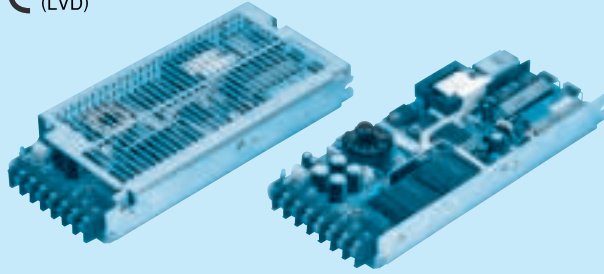




RoHS



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

UAW

The rated load current depends on cooling method that is convection cooling or forced air.

MODEL	UAW125S-3	UAW125S-5	UAW125S-12	UAW125S-24	UAW125S-48
MAX OUTPUT WATTAGE[W]	75	125	126	124.8	124.8
DC OUTPUT (Forced air)	3V 25A	5V 25A	12V 10.5A	24V 5.2A	48V 2.6A

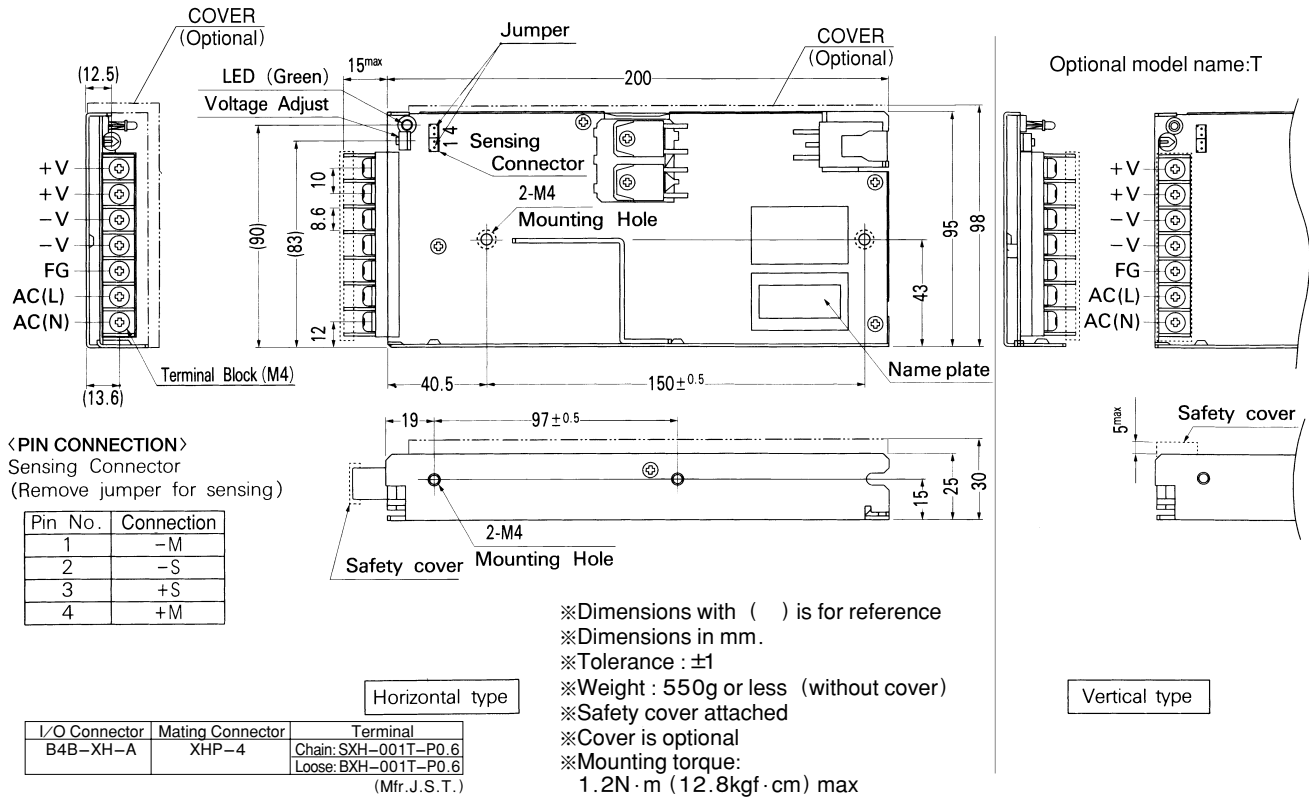
SPECIFICATIONS

	MODEL	UAW125S-3	UAW125S-5	UAW125S-12	UAW125S-24	UAW125S-48	
INPUT	VOLTAGE[V]	AC85 - 132 / 170 - 264 1 φ (Auto-selectable)					
	CURRENT[A]	ACIN 100V	2.8typ (Io=100%)				
		ACIN 200V	1.5typ (Io=100%)				
	FREQUENCY[Hz]	50/60 (47 - 63)					
	EFFICIENCY[%]		72typ	78typ	82typ	85typ	85typ
	INRUSH CURRENT[A]	ACIN 100V	30typ (Io=100%) (At cold start)				
ACIN 200V		60typ (Io=100%) (At cold start)					
LEAKAGE CURRENT[ma]		0.75max (60Hz, According to UL, CSA and VDE)					
OUTPUT	VOLTAGE[V]	3	5	12	24	48	
	CURRENT[A]	Forced air	25	25	10.5	5.2	2.6
		Convection	20	20	8.5	4.5	2.2
	LINE REGULATION[mV]	20max	20max	48max	96max	192max	
	LOAD REGULATION[mV]	40max	40max	100max	150max	300max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	150max
		-10 - 0°C *1	100max	100max	150max	150max	200max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	200max
		-10 - 0°C *1	180max	180max	200max	200max	250max
	TEMPERATURE REGULATION[mV]	40max	50max	120max	240max	480max	
DRIFT[mV]	*2	12max	20max	48max	96max	192max	
START-UP TIME[ms]		500max (ACIN 85/170V, Io=100%)					
HOLD-UP TIME[ms]		10typ (ACIN 85/170V, Io=100%) 20typ (ACIN 100/200V, Io=100%)					
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	+10%, -5%				
PROTECTION CIRCUIT AND OTHERS	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 +55°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, EN50178 Complies with IEC60950-1					
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT	95 x 25 x 200mm (without terminal block) (W x H x D) / 550g max (without cover)					
	COOLING METHOD	Convection/Forced air					

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

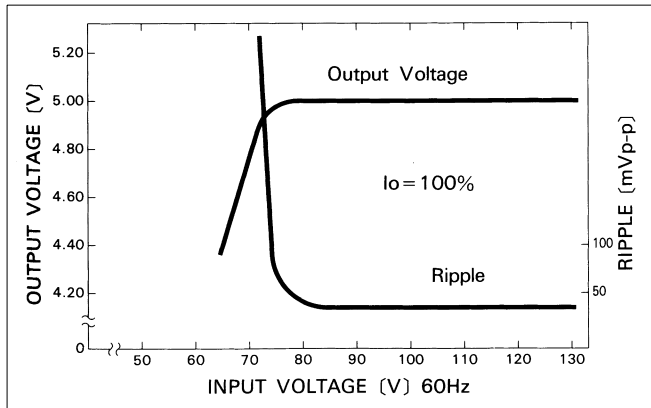
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

External view

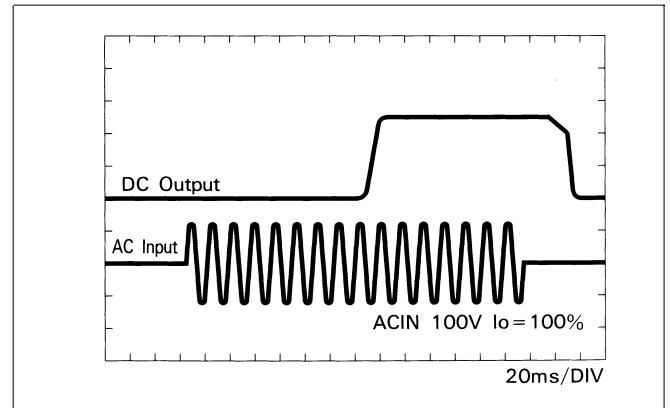


Performance data

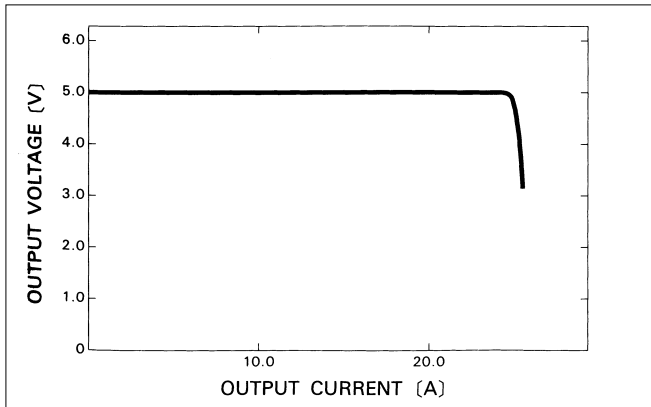
■ STATIC CHARACTERISTICS (UAW125S-5)



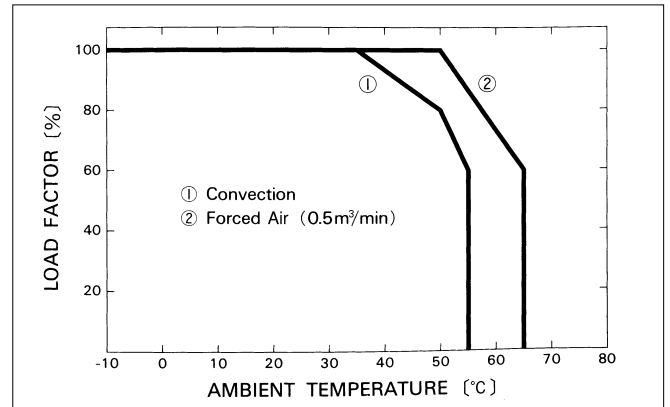
■ RISE TIME & FALL TIME (UAW125S-5)



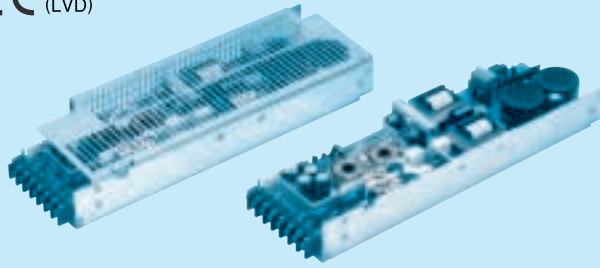
■ OVERCURRENT CHARACTERISTICS (UAW125S-5)



■ DERATING CURVE



- ① Series name
- ② Autoranging input
- ③ Output wattage
- ④ Single output
- ⑤ Output voltage
- ⑥ Optional
- C :with Coating
- G :Low leakage current
- N :with Cover
- R :with Remote ON/OFF



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

MODEL	UAW250S-3	UAW250S-5	UAW250S-12	UAW250S-24	UAW250S-48
MAX OUTPUT WATTAGE[W]	150	250	258	264	249.6
DC OUTPUT	3V 50A	5V 50A	12V 21.5A	24V 11A	48V 5.2A

SPECIFICATIONS

	MODEL	UAW250S-3	UAW250S-5	UAW250S-12	UAW250S-24	UAW250S-48	
INPUT	VOLTAGE[V]	AC85 - 132 / 170 - 264 1 φ (Auto-selectable)					
	CURRENT[A]	ACIN 100V	6typ (Io=100%)				
		ACIN 200V	3typ (Io=100%)				
	FREQUENCY[Hz]	50/60 (47 - 63)					
	EFFICIENCY[%]	70typ		77typ	80typ	83typ	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	48	
	CURRENT[A]	50	50	21.5	11	5.2	
	LINE REGULATION[mV]	40max	40max	80max	100max	192max	
	LOAD REGULATION[mV]	80max	80max	120max	160max	300max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	150max
		-10 - 0°C *1	120max	120max	150max	150max	200max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	350max
		-10 - 0°C *1	180max	180max	200max	200max	400max
	TEMPERATURE REGULATION[mV]	40max	50max	120max	240max	480max	
	DRIFT[mV]	*2	12max	20max	48max	96max	192max
	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%)						
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.6		+10%, -5%				
PROTECTION CIRCUIT AND OTHERS	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 +55°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, EN50178 Complies with IEC60950-1					
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT	95×35×278mm (without terminal block) (W×H×D) /1.1kg max (without cover)					
	COOLING METHOD	Convection/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 >

CN1

Pin No.	Connection
1	-M
2	-S
3	+S
4	+M

CN2

Pin No.	Connection
1	CB
2	G
3	VB

CN3

Pin No.	Connection
1	CB
2	G
3	VB

CN4 (Optional)

Pin No.	Connection
1	RC
2	RCG

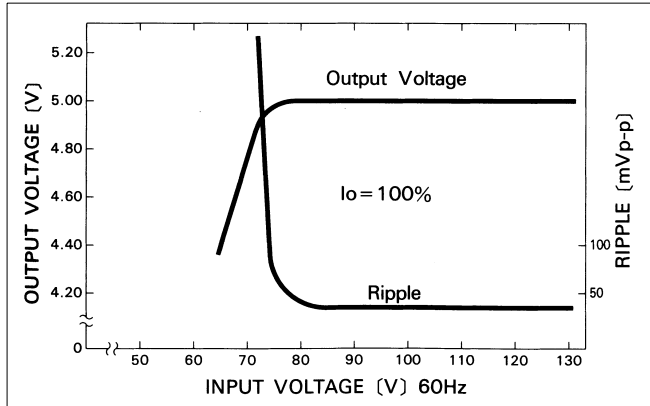
I/O Connector Mating Connector Terminal

I/O Connector	Mating Connector	Terminal
CN1 B4B-XH-A	XHP-4	Chain: SXH-001T-P0.6 Loose: BXH-001T-P0.6
CN2 B3B-XH-A	XHP-3	Chain: SXH-001T-P0.6 Loose: BXH-001T-P0.6
CN3 B3B-XH-A	XHP-3	Chain: SXH-001T-P0.6 Loose: BXH-001T-P0.6
CN4 B2B-XH-A	XHP-2	Chain: SXH-001T-P0.6 Loose: BXH-001T-P0.6

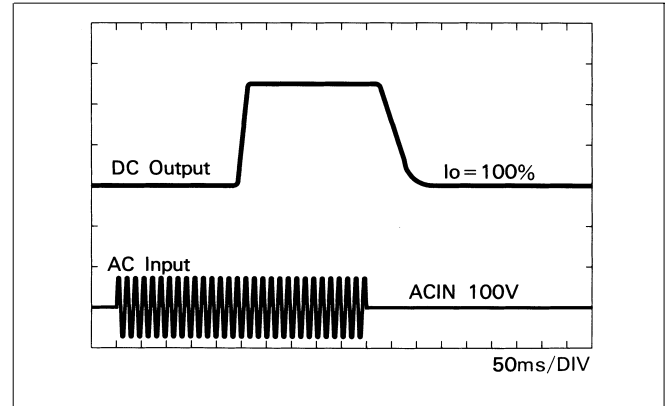
※Mounting torque: 1.2N·m (12.8kgf·cm) max
 ※Output Current of TB1 should be less than 25A
 ※Tolerance : ±1
 ※Weight : 1.1kgs or less (without cover)
 ※Terminal Block cover attached
 ※Cover is optional
 (Mr. J. S. T.)

Performance data

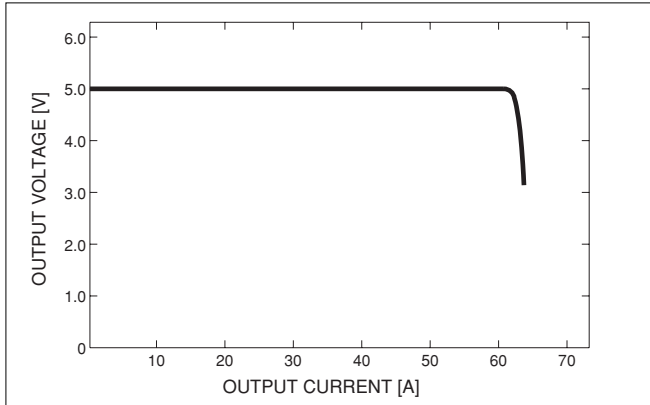
■ STATIC CHARACTERISTICS (UAW250S-5)



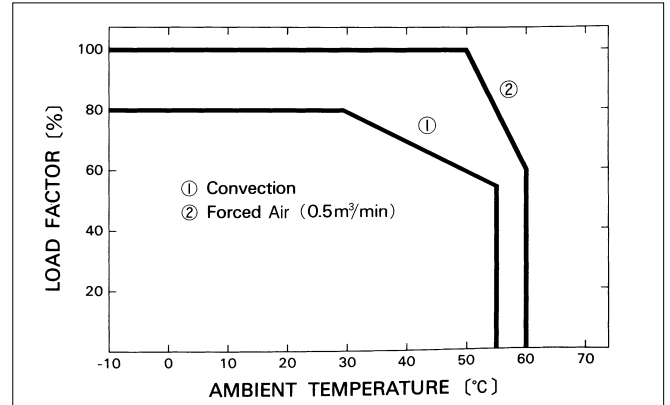
■ RISE TIME & FALL TIME (UAW250S-5)



■ OVERCURRENT CHARACTERISTICS (UAW250S-5)

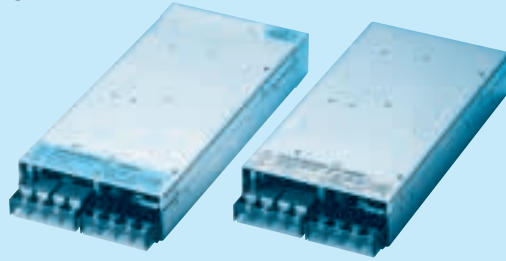


■ DERATING CURVE





RoHS



- 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

UAW

The forced air with the fan is necessary.

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 1 φ (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°C *1	100max	100max	120max	120max
		-10 - 0°C *1	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max
		-10 - 0°C *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%)					
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.6	+10%, -5%				
PROTECTION CIRCUIT AND OTHERS	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°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.60950-1, 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

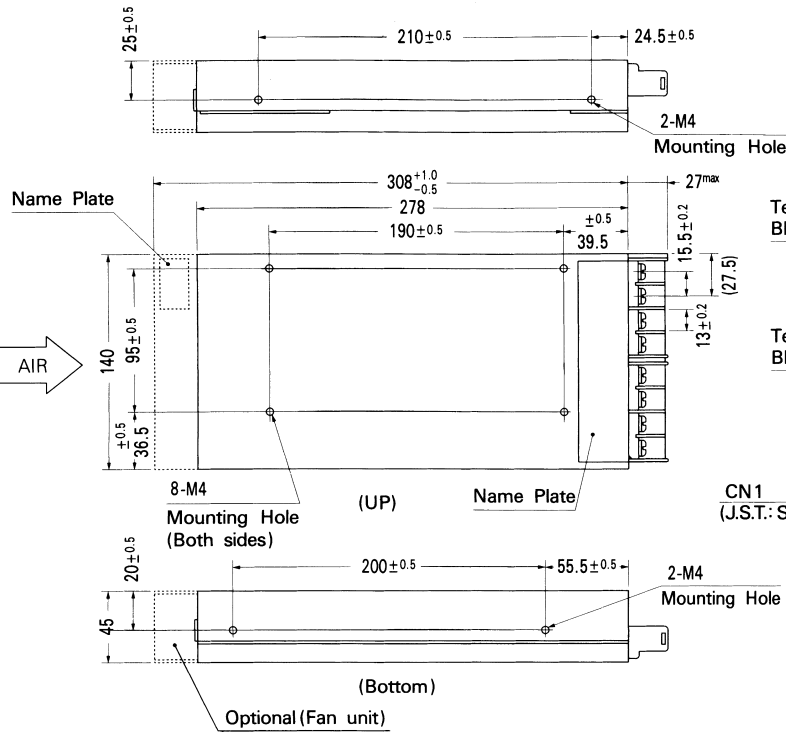
TB2

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 (Mr. J. S. T.)



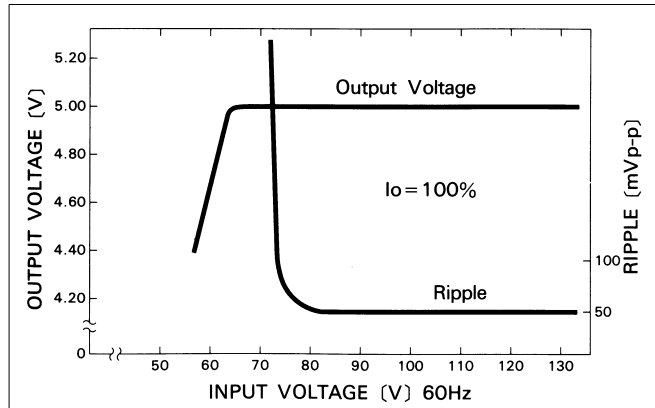
- ※Dimensions with () is for reference.
- ※Weight : 2.4kg or less (2.6kg or less when Fan unit is attached)
- ※Tolerance : ±1
- ※Dimensions in mm.
- ※Cover : Aluminum
- ※Maximum 50A per pin of TB2.

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

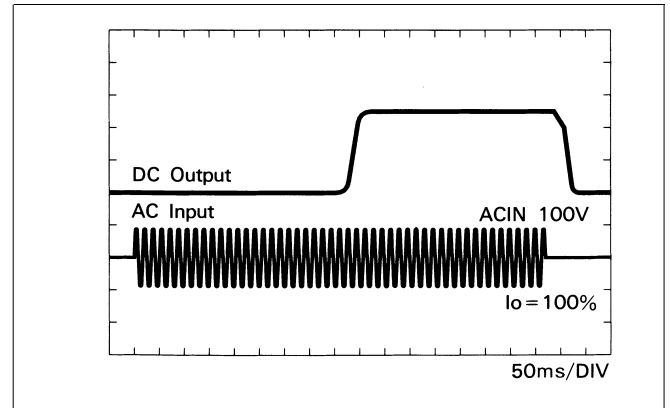
*1 when shipment, connector for -M, -S and +M, +S is attached.

Performance data

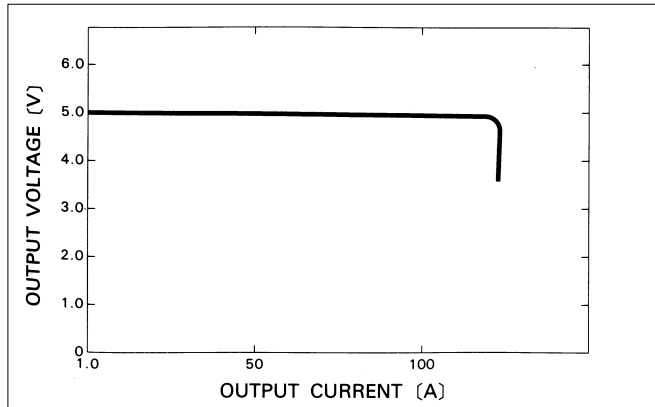
■ STATIC CHARACTERISTICS (UAW500S-5)



■ RISE TIME & FALL TIME (UAW500S-5)



■ OVERCURRENT CHARACTERISTICS (UAW500S-5)



■ DERATING CURVE

