Model Name Coding         Example: UZ P = 400 / 1200P = A 24 - J 0 H $\Box$ - C	Th In	<u>Scope</u> This specification applies to built-in DC stabilized power supply, UZP-400/1200P-A**-J***-*. In addition, all items in this specification shall be provided at normal temperature and humidity unless otherwise specified.							
<sup>®</sup> Peak power "P": Peak power <sup>®</sup> Continuous output power "400": 400W <sup>®</sup> Peak output power "1200P": 1200W <sup>®</sup> Sharrester <sup>®</sup> Dutput voltage "24": 24V, "30": 30V, "36": 36V, "48": 48V <sup>®</sup> Diput/Output connector type"]": Nylon connector <sup>®</sup> Optional joint connector"]": Nylon connector <sup>®</sup> Dottional joint connector <sup>®</sup> Dottional joint connector"]": Nylon connector <sup>®</sup> Dottional joint connector <sup>®</sup> Dottional joint connector"]": Nylon connector <sup>®</sup> Dottional joint connector"]": Nylon connector <sup>®</sup> Dottional joint connector"]": Nylon connector <sup>®</sup> Dottional joint connector									
SContinuous output power "400": 400W         @Peak output power "1200P": 1200W         SArrester		_							
			-	•					
Sharrester			-	-					
			• •						
<sup>®</sup> Optional joint connector type"": Nylon connector <sup>®</sup> Optional joint connector"0": Without connector <sup>®</sup> Presence or absence of function"H": High-efficiency type <sup>®</sup> Optional joint connector:"C": With Chassis and Cover, "Blank": Without Chassis and Cover, <sup>®</sup> Chassis"C": With Chassis, "K": With Chassis and Cover, "Blank": Without Chassis and Cover,             Ceneral Specification             Items             Rated Voltage             200-240 VAC          Voltage Range             170-264 VAC             Voltage Range             170-264 VAC             At 200VAC             Rated Frequency             So – 60 Hz             Inrush         Current         At 200VAC             Inrush         Current         At 200VAC             Efficiency         At 200VAC             Power         Factor             At 200VAC             Power         Factor             At 200VAC             Power         Factor             At 200VAC </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>51/ 4/4</td> <td>o". 49\/</td> <td></td>		-				51/ 4/4	o". 49\/		
Image: Solutional joint connector		-	-				5 : 46V		
Image: Second state of state of function"H": High-efficiency type         Image: Second state of function"Blank": Standard, "C": Coating         Image: Second state of function"Blank": With Chassis and Cover, "Blank": Without Chassis and Cover.         Ceneral Specification         Items       Image: Specification of the second state of the s		-							
Image: Internal Specification       Specification       Measurements conditions, etc.         General Specification         Items       Specification         Measurements conditions, etc.         240-400/1200P-A         Rated Voltage       200-240 VAC         Voltage Range       170-264 VAC       240-400VDC         Voltage Range       170-264 VAC       240-400VDC         Current       At 200VAC       2.3A typ.       At rated output (Convection cooling)         Rated Frequency       50-60 Hz       Frequency range 47 - 63Hz         Inrush Current       At 200VAC       57A typ.       At cold start (25°C)         At at 200VAC       94% typ.       At at ated output (Convection cooling)       At at ated output (Convection cooling)         Power       At 200VAC       96% typ.       At at ated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Image: Some min.       At 300W output         Weak       Vamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0	Í	-	-				tvne		
①Chassis "C": With Chassis, "K": With Chassis and Cover, "Blank": Without Chassis and Cover.         General Specification         Items       Specification       Measurements conditions, etc.         Items       Specification       Measurements conditions, etc.         Rated Voltage       200–240 VAC       240–400/DC input possible         Voltage Range       170–264 VAC       240–400/DC input possible         At rated output       (Convection cooling)         At rated output       (Convection cooling)         Rated Frequency       50–60 Hz       Frequency range 47 – 63Hz         Inrush       At 200VAC       57A typ.       At rated output         Voltage Rame       96% typ.       At acid start (25°C)         Inrush       At 200VAC       96% typ.       At rated output       (Convection cooling)         Power       At 200VAC       96% typ.       At rated output       (Convection cooling)         Hold-up Time       50ms min. <th cols<="" td=""><td>Í</td><td>-</td><td></td><td></td><td>-</td><td>ciency</td><td>type</td><td></td></th>	<td>Í</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>ciency</td> <td>type</td> <td></td>	Í	-			-	ciency	type	
General Specification         Items       Specification       Measurements conditions, etc.         Items       Measurements conditions, etc.         Rated Voltage       200–240 VAC       24       30       36       48         Voltage Range       170–264 VAC       240–400VDC       input possible         Voltage Range       170–264 VAC       240–400VDC       input possible         Current       At 200VAC       2.3A typ.       Convection cooling)         Rated Frequency       50–60 Hz       Frequency range 47 – 63Hz         Inrush       At 200VAC       57A typ.       At rated output (Convection cooling)         Inrush       At 200VAC       96% typ.       At acid dutput (Convection cooling)         Power       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note					-	d Cove	er. "Blank'	": Without Chassis and Cover	
Items         Specification         Measurements conditions, etc.           Items         Measurements conditions, etc.           Items         Measurements conditions, etc.           Rated Voltage         200–240 VAC         240–400VDC           Voltage Range         170–264 VAC         240–400VDC           Current         At 200VAC         240–400VDC           Current         At 200VAC         240–400VDC           Rated Frequency         170–264 VAC         240–400VDC           Current         At 200VAC           Rated Frequency         50–60 Hz         Frequency range 47 – 63Hz           Inrush         At 200VAC         94% typ.           Efficiency         At 200VAC         94% typ.         At add output           Power         At 200VAC         96% typ.           Hold-up Time         SOms min.         At 300W output           Note           Drawn by         Checked by         Approved by         Me	Gen						, biunk		
Items     Measurements conditions, etc.       Rated Voltage     200-240 VAC     240-400VDC     etc.       Voltage Range     170-264 VAC     240-400VDC     At rated output       Current     At 200VAC     2.3A typ.     At rated output     (Convection cooling)       Rated Frequency     50-60 Hz     Frequency range 47 - 63Hz     Power thermistor system       Inrush     At 200VAC     57A typ.     At ated output       Efficiency     At 200VAC     94% typ.     At ated output       Power     At 200VAC     94% typ.     At ated output       Power     At 200VAC     96% typ.     At ated output       Hold-up Time     50ms min.     At 300W output       Note     Vote     Vote     Vote					Specification				
24etc.Rated Voltage $200-240 \text{ VAC}$ 240-400VDC input possibleVoltage Range $170-264 \text{ VAC}$ $240-400\text{VDC}$ input possibleCurrentAt 200VAC $2.3A \text{ typ.}$ At rated output (Convection cooling)Rated Frequency $50-60 \text{ Hz}$ Frequency range $47-63\text{Hz}$ Inrush CurrentAt 200VAC $57A \text{ typ.}$ Power thermistor system At cold start (25°C)EfficiencyAt 200VAC $94\% \text{ typ.}$ At rated output (Convection cooling)Power FactorAt 200VAC $96\% \text{ typ.}$ At 300W outputNote $41300W$ output $41300W$ outputNote $41300W$ output $41300W$ outputDrawn by KishiharaChecked by YamadaApproved by YamamotoModel:Drawing No. $27.5 - 0.1 - 4 - 5.2.0$ $3.7.2.5 - 0.1 - 4 - 5.2.0$ $3.7.2.5 - 0.1 - 4 - 5.2.0$		lte	mc			٨		Measurements conditions,	
Rated Voltage       200-240 VAC       240-400VDC         Voltage Range       170-264 VAC       240-400VDC         Current       At 200VAC       2.3A typ.       At rated output         Current       At 200VAC       2.8A typ.       At rated output         Inrush       At 200VAC       50-60 Hz       Frequency range 47 - 63Hz         Inrush       At 200VAC       57A typ.       At cold start (25°C)         Efficiency       At 200VAC       94% typ.       At rated output         Power       At 200VAC       96% typ.       At rated output         Power       At 200VAC       96% typ.       At rated output         Hold-up Time       50ms min.       At 300W output         Note       Yamada       Approved by       Model:         UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0       0		ice		24			18	etc.	
Voltage Range       170-264 VAC       240-400VDC input possible         Current       At 200VAC       2.3A typ.       At rated output (Convection cooling)         Rated Frequency       50-60 Hz       Frequency range 47 - 63Hz         Inrush Current       At 200VAC       57A typ.       Power thermistor system At cold start (25°C)         Efficiency       At 200VAC       94% typ.       At 300W output         Power Factor       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Checked by       Approved by       Model:         UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0		Pated Va	ltago						
Voltage Range       17/0-264 VAC       input possible         Input possible       At rated output       At rated output         Current       At 200VAC       2.3A typ.       At rated output         Rated Frequency       50-60 Hz       Frequency range 47 - 63Hz         Inrush       At 200VAC       57A typ.       Power thermistor system         Current       At 200VAC       94% typ.       Power thermistor system         Efficiency       At 200VAC       96% typ.       At rated output         Power       At 200VAC       96% typ.       At rated output         Hold-up Time       50ms min.       At 300W output         Note       Votecked by       Approved by       Model:         Drawing No.       3 7 2 5 - 0 1 - 4 - 5 2 0       3 7 2 5 - 0 1 - 4 - 5 2 0			-				240-400/DC		
Current         At 200VAC         2.3A typ.         At rated output (Convection cooling)           Rated Frequency         50-60 Hz         At rated output (Forced air cooling)           Inrush Current         At 200VAC         57A typ.           Efficiency         At 200VAC         94% typ.           Power Factor         At 200VAC         96% typ.           Hold-up Time         50ms min.         At 300W output           Note         UP         UP           Drawn by         Checked by         Approved by           Kishihara         Yamada         Yamamoto         UZP-400/1200P         3 7 2 5 - 0 1 - 4 - 5 2 0		Voltage Range		170-264	1 VAC				
Current       At 200VAC       Iteration cooling)         Rated Frequency       50-60 Hz       At rated output (Forced air cooling)         Inrush Current       At 200VAC       57A typ.         Efficiency       At 200VAC       94% typ.         Power Factor       At 200VAC       96% typ.         Hold-up Time       50ms min.       At 300W output         Note       V       Checked by         Approved by       Model:       Drawing No.         Kishihara       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0				2 2 Å tvp	2 34 tvn				
Image: Solution of the system of the syst		Current	rent At 200VAC			<u> </u>			
Rated Frequency       50-60 Hz       Frequency range 47 - 63Hz         Inrush Current       At 200VAC       57A typ.       Power thermistor system At cold start (25°C)         Efficiency       At 200VAC       94% typ.       At 300W output         Power Factor       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       ######       ####################################		current		-	2.8A typ.			-	
V       Inrush Current       At 200VAC       57A typ.       Power thermistor system At cold start (25°C)         Efficiency       At 200VAC       94% typ.       At 300W output         Power       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Line       Line       Line         Drawn by       Checked by       Approved by       Model:       Drawing No.         Kishihara       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0	put	Rated Fr	equency	50-60 H	Z				
At 200VAC       57A typ.       At cold start (25°C)         Efficiency       At 200VAC       94% typ.       At 300W output         Power       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Yamada       Approved by Model:       Drawing No.         Kishihara       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0		· · · · ·							
Efficiency       At 200VAC       94% typ.       At 300W output         Power Factor       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Image: Checked by Kishihara       Approved by Yamamoto       Model:         Drawn by       Checked by       Approved by       Model:       Drawing No.         Kishihara       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0	AC		At 200VA	C 57A typ.	57A typ.			-	
Efficiency       At 200VAC       94% typ.       At rated output (Convection cooling)         Power Factor       At 200VAC       96% typ.       At rated output (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Image: Checked by Halfer       Approved by Vamamoto       Model:         Drawn by       Checked by       Approved by       Model:         Visibilitaria       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0		Carrent							
Factor       At 200VAC       96% typ.       (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Image: Checked by Kishihara       Approved by Vamamoto       Model:         Drawn by       Checked by       Approved by       Model:       Drawing No.         Kishihara       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0		Efficienc	y At 200VA	C 94% typ.					
Factor       At 200VAC       96% typ.       (Convection cooling)         Hold-up Time       50ms min.       At 300W output         Note       Image: Checked by Kishihara       Approved by Vamamoto       Model:         Drawn by       Checked by       Approved by       Model:       Drawing No.         Kishihara       Yamada       Yamamoto       UZP-400/1200P       3 7 2 5 - 0 1 - 4 - 5 2 0		Power						At rated output	
Hold-up Time     50ms min.     At 300W output       Note     上図     24, 3, 28       アロン 北敏度理     米酸理       Drawn by     Checked by     Approved by       Kishihara     Yamada     Yamamoto       UZP-400/1200P     3 7 2 5 - 0 1 - 4 - 5 2 0			At 200VA	C 96% typ.	96% typ.			-	
Note 上図 24.3.28 (秋 ニアロン 地面管理 Drawn by Checked by Approved by Model: Kishihara Yamada Yamamoto UZP-400/1200P 3725-01-4-520			Time	50ms mir	50ms min				
上図 24.3.28 第二プロン 技術管理 Drawn by Checked by Approved by Model: Drawing No. Kishihara Yamada Yamamoto UZP-400/1200P 3725-01-4-520	Not								
Drawn by     Checked by     Approved by     Model:     Drawing No.       Kishihara     Yamada     Yamamoto     UZP-400/1200P     3 7 2 5 - 0 1 - 4 - 5 2 0									
Kishihara         Yamada         Yamamoto         UZP-400/1200P         3 7 2 5 - 0 1 - 4 - 5 2 0	24.3.28								
Kishihara         Yamada         Yamamoto         UZP-400/1200P         3 7 2 5 - 0 1 - 4 - 5 2 0	Drav	wn by	Checked by	Approved by					
	1	-	-		Model:		Drawing	No.	
	Kis	shihara	Yamada	Yamamoto	UZP-400/1200P		372	5-01-4-520	
	1				· ·				

Nipron Co., Ltd.

Created: March 13th, 2024

				Specification		
	ltems			UZP-400/1200P-A		<ul> <li>Measurements conditions,</li> </ul>
			24	30 36	48	etc.
		Convectio	on -10 to 70	)°C (Open frame)		Refer to "Output derating
	Operatin	Cooling	-10 to 60	)°C (With Chassis and Co	ver)	specification."
	g Temp.	Forced Ai	r -10 to 70	)°C (Open frame)		Refer to "Output derating
	remp.	Cooling	-10 to 70	°C (With Chassis and Co	ver)	specification."
	Operatir	g Humidity	20 to 909	6 RH		- There shall be no
nment	Storage Temp. /	Humidity		5°C / 10 to 95% RH		condensation.
Environment	Vibratio	1	with vibr	e the vibration acceleration ation frequency of 10 to cycles in each X, Y, Z dir	55Hz for	Follow JIS-C-60068-2-6 at no operation
				ottom edge of the unit 5		Follow JIS-C-60068-2-31
			with the o	opposite edge placed on	the test	at no operation
	Surface	Dropping	bench, ar	nd let it fall. Repeat 3 tim	es for	
				our bottom edges, and no	)	
			malfunct	on shall be observed.		
				1 min.between input and		Cut-off current 10mA
Ē	Dielectri	c Strength	output/R	C *1		
Insulation	Bieleeth	eonengen	1.5kVAC	'1 min. between input and	Cut-off current 10mA	
sulà				1 min. between each outp	Cut-off current 10mA	
-	Insulatio	n Resistance	50MΩ mi	n. each input/output/RC/FC	At 500 VDC	
	Leakage	Current		yp. (at 200VAC)		
	Electros			-4-2 test level 3 complia	nt	Apply to FG and chassis.
	Discharg			discharge: ±6kV, 10 time	There shall be no	
					malfunction, nor failure. There shall be	
	Fast Tra	nsients Burst	IEC61000	-4-4 test level 3 complia	Int	no malfunction, nor failure.
			IEC61000		There shall be	
Others	Impulse		(installati complian	on environment class 4 o	no malfunction, nor failure.	
ot	Immunit	У		imes each of Common m		
				d Normal mode ±2kV		
	Conduct	ed Emission		C, CISPR32, and EN55032	Rated Input and output (Convection) with chassis	
	Harmoni	c Current	complian		Rated input and output	
	Regulati			–3–2 (Ed. 2.1) Class A, a –3–2 (A14) Class A comp	(Convection)	
Not		7-17. Yana		,	-	
						(出図)
						(株) ニプロン 技術管理
D		Charles d Les	A			
Urav	wn by	Checked by	Approved by	Model:	Drawing	g No.
Ki	shihara	Yamada	Yamamoto	UZP-400/1200P		5-01-4-520
		rumuuu		UZP=400/1200P -A**-J***-*	3/2	5 - 0 - 4 - 5 2 0 2/11
				ለምም ህምምም ጥ		2/ 11

Nipron Co., Ltd.

Created: March 13th, 2024

ltems			Specifi	Measurements conditions,		
			UZP-400/			
		24	30	36	48	etc.
		UL62368-	1, CSA6236	58–1( <b>c–</b> UL)		
	Safaty Standard	EN62477-	1 OVCⅢcom	pliant		
	Safety Standard	CE marking	g, UKCA ma	rking		
		PSE (Ordina	ance item 2)			
irs	SEMI Standard SEMI-F47 compliant					When the output power is up to 600W
Others	Cooling	Convection cooling				
0	Dimensions	84×45×18	30 (W×H×D	Without Chassis and Cover		
	and Weight	97.2×57.5	×212 (W×H	With Chassis and Cover		
	Warranty	Three years after delivery: if any defects belong to us, the defective unit shall be repaired or replaced at our cost.				Except for errors caused by operation not specified in this specification.

Note

\*1. The dielectric strength between input and output/RC is 3k VAC for 1 min., but please refer to the above specifications to prevent the arrester from operating due to the voltage dividing effect of the grounding capacitor's capacitance (between input, FG/output, and FG).

\*2. The dielectric strength between input and FG is 2k VAC for 1 min., but please refer to the above specifications because an arrester is installed between input and FG.

出図
24, 3, 28
は新管理

Drawn by	Checked by	Approved by	Model:	Drawing No.	
Kishihara	Yamada	Yamamoto	UZP-400/1200P -A**-J***-*	3725-01-4-520 $3/$	11

Nipron Co., Ltd.

Created: March 13th, 2024

# Output Specification

Output Specification									
	• • • •				Specif	ication			
	ltems				UZP-400	Measurements conditions,			
				24	30	36		48	etc.
Rated Voltage				24V	30V	36V		48V	·····
	Continuous		Current		13.4A	11.2A		8.4A	Rated input Refer to "Output derating
ing	Rating 1 (convecti	ion)	Power	403.2W	402W	403.2\	N	403.2W	based on ambient temperature,
Output Rating	Continuo Rating 2		Current	21A	16.8A	14A		10.5A	installation direction and cooling condition"
Out	(forced a	air)	Power	504W	504W	504W		504W	
	Peak Rat (10 seco		Current	50A	40A	33.4A		25A	Refer to "Peak output specification"
	or less)		Power	1200W	1200W	1202.4	ŧW	1200W	convection and forced air.
	Factory S	Setti	ng	24V ±2%	30V ±2%	36V ±	2%	48V ±2%	At rated output
	Adjustak Range	ole V	oltage	24V +5% -5%	30V +5% -5%	36V +5% -5%		48V +5% -5%	At more than rated voltage setting, Use it within rated output power.
S	Static In	put F	Regulatio	94mV	120mV max.	144m max.	/	192mV max.	
stic			Rated	150mV	180mV	220m\	/	300mV	
teri	Static Load Regulation		load	max.	max.	max.		max.	
Irac			Peak	250mV	300mV	370m\	/	500mV	]
Cha			load	max.	max.	max.		max.	
Output Characteristics	Tempera Regulatio	nperature Julation		0.02%/℃	0.02%∕℃ max.				
0			to+70℃	120mV ma	120mV max.		150mV max.		Connect 150mm max. lead wire to output connectors, and then connect a 10uF
	Voltage	-1	0 to 0℃	160mV max	160mV max.			mV max.	electrolytic capacitor with a 0.1 uF ceramic capacitor in
	Noise		to +70℃	150mV max	150mV max.		250mV max.		parallel to the other ends of the wires to measure by an oscilloscope with 100MHz
			0 to 0℃	180mV ma	I 80mV max.			mV max.	frequency band. Rated output
	Over	00	CP point	101%min	. of peak rate	ed curre	nt		
cuit	Current	Me	ethod	Blocking	scillation				
circ	Protection	Re	covery	Automatic	recovery				
Protection circuit	Over	0\	/P point	28.0 to 35.0V	34.5 to 40.5V	41.4 to 49.4	ŧv	55.2 to 64.8V	
Prot	Voltage Protoction	Me	ethod	Output sh	utdown	I			
	Protection Recovery			of AC input				出図	
Not	e				········				24.3.28 (株) ニプロン 技術管理
Drav	vn by	Cheo	cked by	Approved by				1	
			-,	.,,	Model:			Drawing	No.
Kis	shihara	Ya	amada	Yamamoto	UZP-400/12 -A**-J***-			372	5 - 0 1 - 4 - 5 2 0 4/11
					-A**-J***-	-*			4/

Nipron Co., Ltd.

Signal Input/Output specification							
lte	ems	Speci	Signal input/output	circuit diagram and others			
	OFF rol Signal signal)	output starts up w applied regardless To control Start/St signal, uncap shor Note: Shorting plu circuit component	C Output in.) ON ax.) OFF upply and sistor Load-limiting resistor: R Not required 1.5kΩ 8.2kΩ (CN2) connected, hen AC input is of RC signal. top of output by RC ting plug of CN2. g (CN2) is primary	Connecting example using external powe Power supply IkΩtyp.	e in the case of		
Note	Chosked				北図 24,3.28 (㈱ニブロン 株術管理)		
Drawn by	Checked	by Approved by	Model:	Drawing No.			
Kishihar	a Yamac	da Yamamoto	UZP-400/1200P	3725-	-01-4-520		

Nipron Co., Ltd.

-A\*\*-J\*\*\*-\*

Due to the technical improvement, the specifications and functions are subject to change without notice.

5/11

●Sequence Timing diagram							
AC input		800ms max. 90%	<u>50</u> ms max. %	50ms min. *			
Output	<u> </u>	/	<u>\</u>				
Output ON/ Control Sig (RC signal)				×At 300W output			
●Peak o	utput speci	fication					
Peak outpu	t current sha	ll meet the co	nditions below.				
<ul> <li>Energized</li> <li>The value</li> </ul>	period of per resulting from	n the formula	all be 10 seconds or less.	the continuous rated current, lo,			
√((lp²	×D) + (Im²×(	1-D))) ≦ Io	Ip				
m= D= t=F T= lo=	Cycle	: value T f peak current rated current	Im t specified in the				
enough (an power is sn cause any p	d its resistan nall, the outp problem, plea	ce value is too ut voltage at j	output voltage waveform				
Note							
				出図 24.3.28 (第三プロン			
				技術管理			
Drawn by	Checked by	Approved by	Model:	Drawing No.			
Kishihara	Yamada	Yamamoto	U7P-400/1200P	3725-01-4-520			

Nipron Co., Ltd.

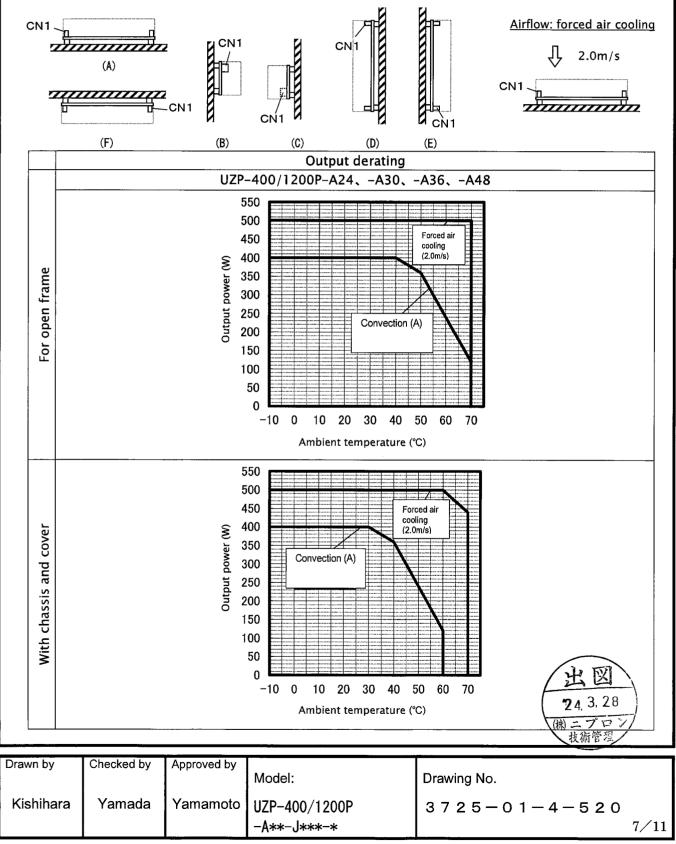
--A\*\*--J\*\*\*--\*

Due to the technical improvement, the specifications and functions are subject to change without notice.

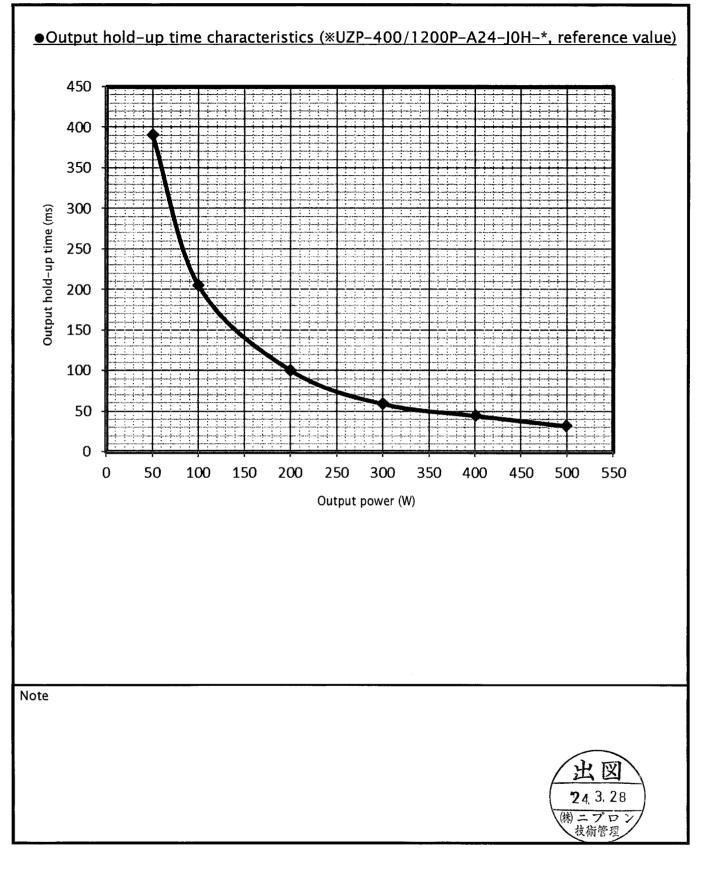
6/11

### •Output derating based on ambient temperature, installation direction and cooling condition

For the mounting direction (A), follow the derating diagram below depending on the ambient temperature of the power supply. For the mounting direction (B)–(F), please contact us. Also, the airflow shall be 2.0m/s for the forced air cooling as shown below.

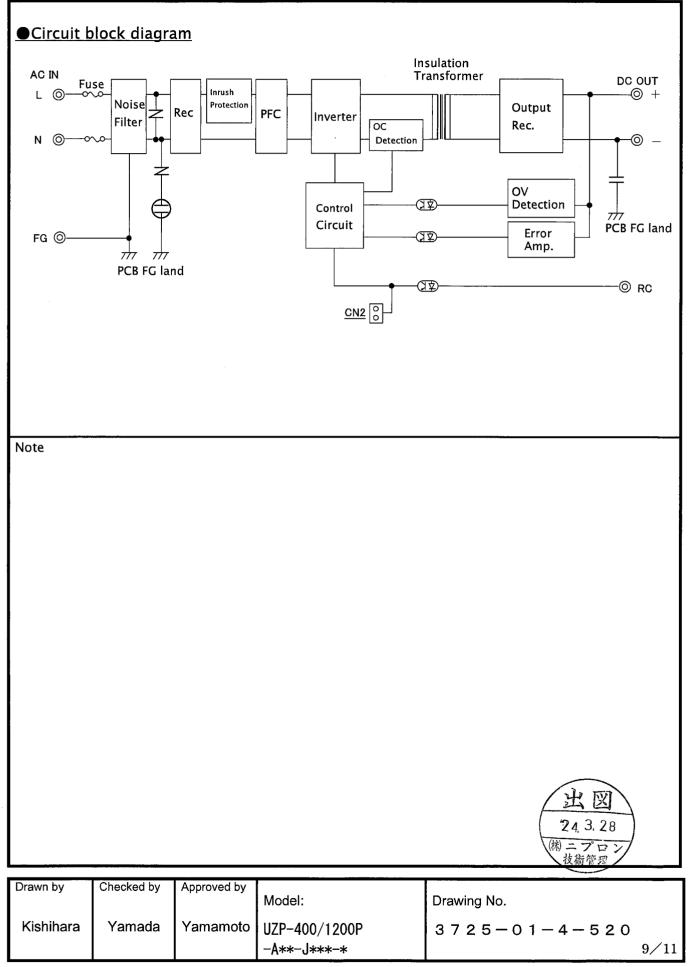


Nipron Co., Ltd.



Drawn by	Checked by	Approved by	Model:	Drawing No.
Kishihara	Yamada	Yamamoto	UZP-400/1200P -A**-J***-*	3725-01-4-520 8/11

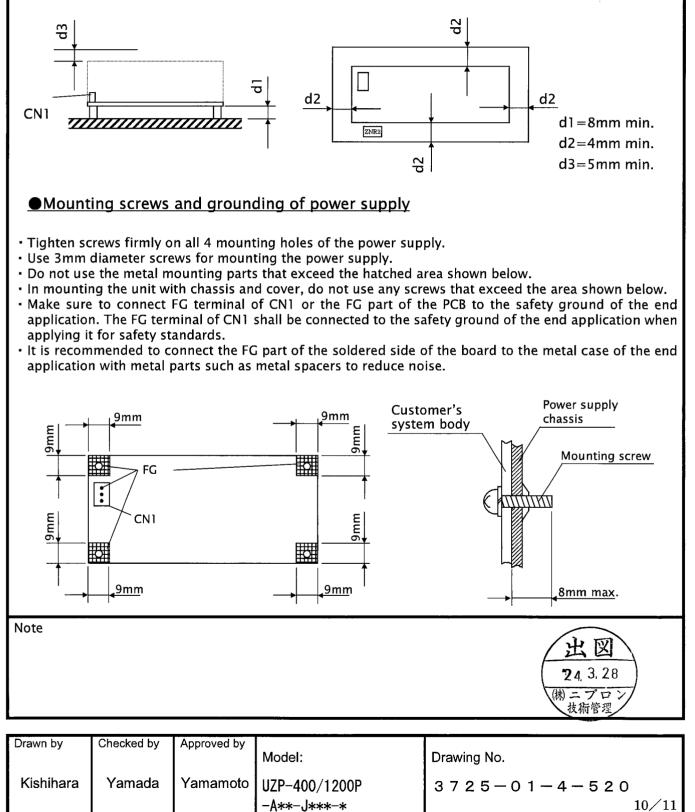
Nipron Co., Ltd.



Nipron Co., Ltd.

#### Power supply installation

- To meet the standard of insulation and dielectric strength, the space (d1, d2, and d3) shown below is necessary around the power supply.
- Sufficient convection and ventilation are required to prevent the ambient temperature of the power supply from rising.
- Keep flammable materials at least 13mm away from the varistor (ZNR2).



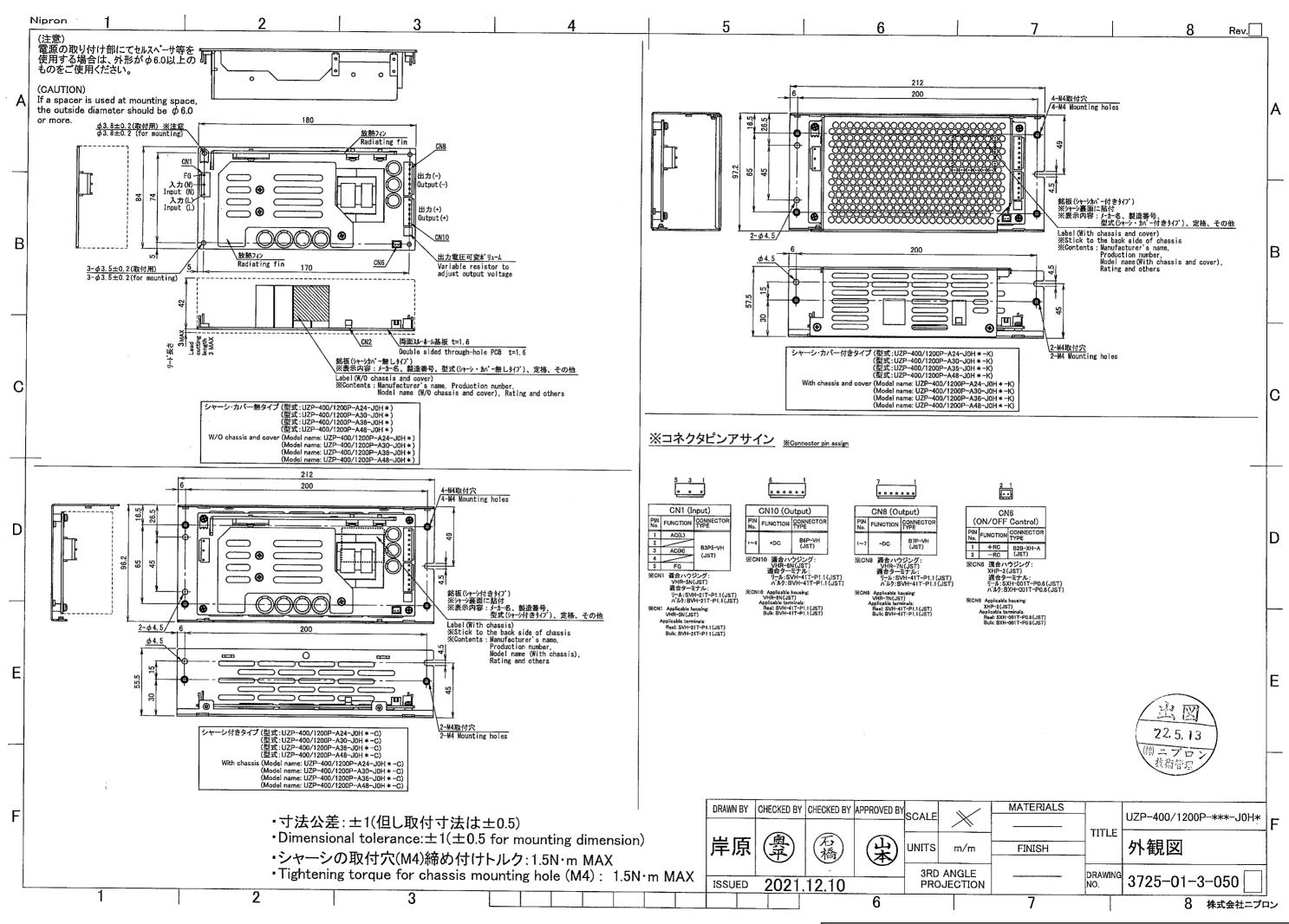
Nipron Co., Ltd.

#### Precautions before use

- 1. Grounding A Warning This unit is designed and produced to meet Class 1 equipment. Make sure to connect the grounding terminal of the unit to grounding in a proper way for safety.
- Electric shock A Warning
   This unit is designed and produced as built-in equipment and has high-voltage part inside.
   Make sure to securely install in the equipment in a proper way to prevent electric shock.
   Also, shorting plug (CN2) for RC signal setting is primary circuit components. Make sure to turn off AC input before using this plug.
- 3. PCB handling A Caution In handling, hold the edges of the PCB in order not to touch the component sides. Lift the PCB from the End application with spacers at installation. Besides, handle the PCB with care to prevent twisting or bending as it has SMT components.
- 4. Output short circuit A Caution When the output is shorted, capacitors inside the power supply may rapidly discharge, and fire and/or spark may cause a serious accident
- 5. Inrush current control circuit A Caution A power thermistor is used to prevent inrush current into rectifying capacitors when AC input is turned on. If AC is input before the temperature of the thermistor goes low after turning off, a huge inrush current may occur. Make sure to keep a 60-second period at least before reclosing of AC input.
- 6. Output energy A Caution The output energy of this product is dangerous (240VA min.). Service engineers and tools shall not touch the output terminals. Make sure that the input power is shut down and the voltage on the input/output terminals drops to the safe voltage before repairing.

				24,3,28 (株) ニプロン 技術管理
Drawn by	Checked by	Approved by	Model:	Drawing No.
Kishihara	Yamada	Yamamoto	UZP-400/1200P -A**-J***-*	3725-01-4-520 11/11

Nipron Co., Ltd.



Due to the technical improvement, the specifications and functions are subject to change without notice.