

Guide to Selecting Control Units According to Functions

You can easily find and select the control unit you need. Excluding the PSCC Series, PSB4 Series, and PSB3-30024



Guide to Selecting Control Units for the Spot Lights **HLV Series**





Refer to the Technical Guide on P. 396 for details regarding the technical structure and meanings of terminology for PWM, variable voltage and other types of control.

Control Unit Selection Guide

lighting	on off lighting	ou obo lighting	In you want to emit light brighter than Owor
PD4/PD4-A Series PD3 Series PD2 Series CD-VA Series CC-ST-1024 CN-EPOE Series CN-4024-2-EIPT	★ PD4/PD4-A Series PD3 Series PD2 Series CD-VA Series CC-ST-1024 CN-4024-2-EIPT	No overdrive + PD4/PD4-A Series PD3 Series CC-ST-1024 CN EPOE Series	Ighting or strobe lighting without overdrive: Overdrive specifications Light emission is made even brighter by increasing the output to light units for a short time. ★ POD Series CD-VA Series CN-4024-2-EIPT
PB-2430-1		CN-4024-2-EIPT (Continuous emitting type)	PTU2 Series PF Series (Used with dedicated light units P.129 for strobe emitting)
		(Continuous emitting type)	tor subbe emitting)

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Digital Control Units	Digital Control Units Excluding the PF Series, PJ 2 Series, PJ Series, and CC-PJ-0707.										
Model name	PD4- 6024-2-P	PD4- PD4- <th< th=""></th<>									
Output voltage		24 V									
Output power		60	W			120) W				
Number of channels	2	2		4	:	2		4			
Lighting method				Continuous /	Strobe lighting						
Intensity control method		PWM control / Lighting time control									
PWM frequency				125	kHz						
Intensity value				1,024 or 2	256 levels						
Input voltage				100 to 2	240 VAC						
Frequency				50 / 6	60 Hz						
Power consumption	155 VA	152 VA	155 VA	152 VA	170 VA	168 VA	170 VA	168 VA			
Parallel communication	0	_	0	-	0	_	0	_			
EIA-485 communication				-	-	-	-	-			
Ethernet	—	0	-	0	-	0	-	0			
RS-232C communication				-	-						

S-232C communication			-	_						
SB communication	0									
nalog input			-	-						
lanual control			C)						
N/OFF lighting			C)						
trobe lighting			(no o	verdrive)						
ghting time		0 to 992 µ	s (in steps of 8 µs) c	or 0 to 40 ms (in step	ps of 1 ms)					
ghting delay time			0 to 999 µs or	0 to 1,000 ms						
E marking			()						
/eight			1.5	kg						
ooling method			Natural a	ir cooling						
lounting method			DIN rail and bo	ottom mounting						
alayant paga			D 2	01						

Model name	PD4- 3024A-2-P	PD4- 3024A-2-E	PD4- 3024A-4-P	PD4- 3024A-4-E	PD4- 12024A-8-P	PD4- 12024A-8-E	PD3- 3024-3-PI	PD3- 3024-3-SI(A)	PD3- 3024-3-EI(A)
Output voltage			24	V			24 V		
Output power		30	W		120	W		28 W	
Number of channels	2 4			1	8	3		3	
Lighting method			Continuous / S	Strobe lighting			Cont	inuous / Strobe lig	hting
Intensity control method			PWM control / Lig	hting time control			PWM co	ntrol / Lighting tim	e control
PWM frequency			Select from 125	5 kHz / 500 kHz				125 kHz	
Intensity value			1,024 or 2	56 levels ^{*1}				256 levels	
Input voltage			100 to 2	40 VAC				100 to 240 VAC	
Frequency			50 / 6	60 Hz				50 / 60 Hz	
Power consumption	82 VA	84 VA	82 VA	84 VA	165 VA	168 VA	78 VA		
Parallel communication	0	-	0	-	0	-	0	-	_
EIA-485 communication			-	-			-	0	_
Ethernet	-	0	-	0	-	0	-	-	0
RS-232C communication			-	-			-		
USB communication			C)			-		
Analog input			-	-			-		
Manual control			()			0		
ON/OFF lighting			C)			0		
Strobe lighting			(no ov	verdrive)				○ (no overdrive)	
Lighting time		8 to 992 µs ((in steps of 8 µs) o	or 1 to 40 ms (in s	teps of 1 ms)		40 μs / 80 μs / 120 μs / 200 μs / 600 μs / 1 ms / 4 ms / 10 ms / 20 ms / 40 ms		
Lighting delay time			0 to 999 µs or	1 to 1,000 ms				10 µs max.	
CE marking			0	*2				0	
Weight		62	0 g		1.3	kg		600 g	
Cooling method			Natural a	ir cooling				Natural air cooling	1
Mounting method			DIN rail and bo	ottom mounting			DIN ra	ail and bottom mo	unting
Relevant page			P.2	91			P.299		

*1 256 levels when selecting PWM frequency 500 kHz. *2 CE compliance is conditional for PWM frequency 500 kHz. For details, please refer to the operation manual.

Model name	PD3- 5024-4-PI(A)	PD3- 5024-4-SI(A)	PD3- 5024-4-EI(A)
Output voltage			
Output power		46 W	
Number of channels		4	
Lighting method			Contin
Intensity control method			PWM cont
PWM frequency			
Intensity value			
Input voltage			1
Frequency			
Power consumption		70 VA	
Parallel communication	0	_	-
EIA-485 communication	-	0	
Ethernet	-	-	0
RS-232C communication			
USB communication			
Analog input			
Manual control			
ON/OFF lighting			
Strobe lighting			C
Lighting time		40 µs / 80 µ	is / 120 μs / 200 μs /
Lighting delay time			
CE marking			
Weight		1.2	2 kg
Cooling method			I
Mounting method			DIN rail
Relevant page			

Model name	PD3- 3024-3-PT	PD3- 3024-3-ET(A)	PD3- 5024-3-PT	PD3- 5024-3-ET(A)	PD3- 5024-4-PT(A)	PD3- 5024-4-ET(A)				
Output voltage		24 V								
Output power	28	28 W 48 W 46 W								
Number of channels		:	3			4				
Lighting method			Continuous / S	Strobe lighting						
Intensity control method			PWM control / Lig	hting time control						
PWM frequency			125	kHz						
Intensity value			256 le	evels						
Input voltage			24 V	/DC						
Frequency			-	-						
Power consumption	32	W		52	W					
Parallel communication	0	_	0	_	0 –					
EIA-485 communication			-	-						
Ethernet	—	0	—	0	_	0				
RS-232C communication			-	-						
USB communication			-	-						
Analog input			-	-						
Manual control			C)						
ON/OFF lighting			C)						
Strobe lighting			○ (no ov	verdrive)						
Lighting time		40 µs / 80 µ	s / 120 µs / 200 µs / 600 µs	s / 1 ms / 4 ms / 10 ms / 20) ms / 40 ms					
Lighting delay time		10 µs	max.		20 µs	s max.				
CE marking			C)						
Weight		40	0 g		85	i0 g				
Cooling method		Natural a	ir cooling		Forced	cooling				
Mounting method			DIN rail and bo	ttom mounting						
Relevant page			P.2	99						

	PD3- 10024-8-PI	PD3- 10024-8-SI(A)	PD3- 10024-8-EI(A)
24	V		
		95 W	
		8	
ous / S	Strobe lighting		
ol / Lig	hting time control		
125	kHz		
256 I	evels		
0 to 2	40 VAC		
50 / 6	60 Hz		
		130 VA	
	0	-	-
-	_	0	—
	-	_	0
-	-		
-	-		
-	_		
C)		
C)		
(no o	verdrive)		
600 µ:	s / 1 ms / 4 ms / 10 ms / 20	0 ms / 40 ms	
20 µs	max.		
C)		
		1.5	kg
orced	cooling		
nd bo	ottom mounting		

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Digital Control Units Analog Control Units Excluding the PF Series, PJ2 Series, PJ Series, and CC-PJ-0707.

Model name	PD2-	PD2-	PD2-	PD2-	PD2-	PD2-		
Output voltage	1024(A) 3024-3(A) 3024-3(A) 3024(A) 24 V							
Output power	9 W	28	W	27 W	25 W	46 W		
Number of channels	1	2	2	4	8	1		
Lighting method			Continuo	us lighting				
Intensity control method			PWM	control				
PWM frequency			62.5	kHz				
Intensity value			256	evels				
Input voltage			100 to 1	20 VAC				
Frequency			50/6	0 Hz				
Power consumption	27 VA		78	VA		122 VA		
Parallel communication			()				
EIA-485 communication			-	_				
Ethernet			-	_				
RS-232C communication			-	_				
USB communication			-	_				
Analog input			-	_				
Manual control			()				
ON/OFF lighting			()				
Strobe lighting			-	_				
Lighting time			-	_				
Lighting delay time			-	-				
CE marking			()				
Weight	700 g	1.1	kg	1.2 kg	1.5 kg	1.3 kg		
Cooling method			Natural air cooling			Forced cooling		
Mounting method	Bottom mounting			Bottom and side mounting				
Relevant page	P.307							

Nodel name	CD-VA10024-2P	CD-VA10024-2PE	CD-VA20024-4P	CD-VA20024-4PE	POD-5024-2-PEI	POD-22024-4-PEI		
Dutput voltage	Va	PWM mo Strobe mo riable-voltage mode: LOW:	24 V t (Overdriv	24 V to 48 V (Overdrive mode)				
Dutput power	100 W (Max. 50 W	for each channel)	200 W (Max. 50 W	for each channel)	See specification	See specifications table on P.319 "5		
lumber of channels	2	2	4	1	2 4			
ighting method	Continuous	/ Strobe lighting (overdrive	when lighting time is 1,00	0 µs or less)	Strobe / Conti	inuous lighting		
ntensity control method		PWM control / Varia	able-voltage control		Variable-voltage co	ontrol / PWM control		
PWM frequency		100 kHz o	or 130 kHz		125	kHz		
ntensity value		1,000	levels		512	evels		
nput voltage		24 \	/DC		100 to 2	240 VAC		
requency		-	-		50/6	0 Hz		
Power consumption	250 W	/ max.	500 W	/ max.	65 VA	260 VA		
Parallel communication		(()				
EIA-485 communication		-	_		—			
Ethernet	—	0	—	0	0			
RS-232C communication		()		—			
JSB communication		()		—			
Analog input		-	_		_			
lanual control		()		0			
DN/OFF lighting		()		0			
Strobe lighting		◯ (with o	verdrive ^{*4})		O (with overdrive)			
ighting time	At PWM frequence At PWM frequency	y 100 kHz: 10 µs to 999 µs I30 kHz: 7.7 µs to 7,684.6	s (10 μs steps), 1 ms to 99 μs (7.7 μs steps), 1 ms to 9	9 ms (1 ms steps) 999 ms (1 ms steps)	1 to 1,000 µs	s (1 µs steps)		
ighting delay time		0 µs to	999 µs		0 to 1,000 µs	s (1 µs steps)		
CE marking		()		(C		
Veight	260 g	360 g	260 g	360 g	1.5 kg	3.3 kg		
Cooling method		Natural a	ir cooling		Forced	cooling		
Nounting method		DIN rail and bo	ottom mounting		Bottom r	mounting		
Relevant page		P.3	311		P.317			

*3 Automatically switches to 24 VDC drive when strobe lighting time exceeds 1 ms. Also uses 48 VDC drive when strobe lighting time is 1,000 µs (µs steps selected).
*4 Overdrive is unavailable in variable-voltage mode.
*5 Confirm the peak current of the LED lights and use them within the output current of the control unit. For information on the combination of control units and LED lights, please refer to our website.

Model name	CN-4024-2-EIPT	PTU2-3024(A)	CX-PV6024-4X	CX-PV12024-4X	CN-1024-2-EPOE	CN-1024-4-EPOE	CC-ST-1024
Output voltage	24 V or 48 V (Overdrive)	48 V	24	24 V 24 V		24 V	
Output power	See specifications table on P.332 $^{^{\rm 15}}$	27 W	60 W	120 W	Channel t	otal: 10 W	10 W
Number of channels	2	2		4	2	4	1
Lighting method	Strobe / Continuous lighting	Strobe lighting	Continuous /	Strobe lighting	Continuous / Strobe lighting		Continuous / Strobe lighting
Intensity control method	Lighting time control / PWM control	Lighting time control	PWM control / Varia	ble-voltage control *6	PWM control / Lig	phting time control	PWM control / Lighting time control
PWM frequency	125 kHz	—	125	kHz	125	kHz	100 kHz
Intensity value	512 levels	10% to 100%	1,024	levels	256	evels	100 levels
Input voltage	24 VDC	100 to 240 VAC	PCI Express auxiliary power supply (6-pin)	PCI Express auxiliary power supply (8-pin)	RJ-45 connector	(based on PoE)	24 VDC
Frequency	-	50/60 Hz	-	_	-	_	-
Power consumption	45 W (average), 71.3 W (peak)	78 VA	75 W	150 W	13.	9 W	11 W
Parallel communication	_	0	-	_		_	
EIA-485 communication	_	_	-	_		_	_
Ethernet	O*5	_	-	_	()	-
RS-232C communication	_	_	-	_	_		_
USB communication	_	_	-	_	_		-
Analog input	_	_	-	_	_		_
Manual control	0	0	-	_	_		0
ON/OFF lighting	_	_	(C	()	0
Strobe lighting	(with overdrive)	O (with overdrive)	(no over) erdrive)	(no ove) erdrive)	O (no overdrive)
Lighting time	See Instruction Manual	10 to 990 μs (10 μs steps)	During PWM control: 0 or 1 ms to 40 r During variable-voltag or 1 ms to 40 r	During PWM control: 0 to 992 µs (8 µs steps) or 1 ms to 40 ms (1 ms steps) During variable-voltage control: 0 to 999 µs or 1 ms to 40 ms (1 ms steps) 8 µs to 100 ms (8 µs st		is (8 µs steps)	50 μs/100 μs/ 250 μs/500 μs/ 1 ms/4 ms/ 10 ms/40 ms
Lighting delay time	0 to 10,000 µs (1 µs steps)	15 µs max.	0 to 999 µs or 1	to 1,000 ms max.	0 µs to 100 m	s (10 µs steps)	3 µs max.
CE marking	0	0	-	_	()	0
Weight	500 g	1.2 kg	200 g	230 g	14	0 g	80 g
Cooling method	Natural air cooling	Natural air cooling	Natural a	air cooling	Natural a	ir cooling	Natural air cooling
Mounting method	DIN rail mounting	Bottom mounting	PCI Ex	press x1	DIN rail and bo	ottom mounting	DIN rail mounting
Relevant page	P.331	P.321	P.3	327	P.3	329	P.335

Model name	PSCC-30048(A)	PSCC-60048(A)	PSB4-30024-PEI	PSB4-60024-2-PEI	PSB3-30024
Output voltage	43	V	24	V	24 V
Output power	300 W	600 W	300 W	300 W (1 channel max.)	300 W
Number of channels	1	1	1	1 2	
Lighting method			Continuous lighting		
Intensity control method	Variable-cu	rrent control		Variable-voltage control	
PWM frequency	-	_	-	_	_
Intensity value	256 or 1,0	000 levels	256 or 1,0	024 levels	256 levels
Input voltage			100 to 240 VAC		
Frequency			50/60 Hz		
Power consumption	360 VA	750 VA	388 VA	765 VA	410 VA
Parallel communication	C)	()	0
EIA-485 communication	()	-	0	
Ethernet	C)	C	_	
RS-232C communication	-	-	-	_	_
USB communication	-	-	-	_	
Analog input	-	_	-	0	
Manual control			0		
ON/OFF lighting			0		
Strobe lighting	-	-	-	_	_
Lighting time	-	_	-	_	—
Lighting delay time	-	-	-	_	_
CE marking			0		
Weight	3.1 kg	7.0 kg	2.4 kg	4.1 kg	2.3 kg
Cooling method			Forced cooling		
Mounting method			Bottom mounting		
Relevant page	P.3	43	P.3	P.347	

*5 Confirm the peak current of the LED lights and use them within the output current of the control unit. For information on the combination of control units and LED lights, please refer to our website. *6 When using variable-voltage control, the intensity value settings are shared across all channels.