

TPDP1B type







TPAP2B type

TPDP2B type

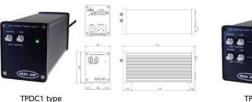
\* Product specifications are subject to change without notice.

## Use and features

- TPAP-B Series provides high performance (including PWM light control and external control) at low cost.
- HIKARI-SHOP low-cost power supply with external ON/OFF and dimming control (0 to 5 V) suited to image processing LED illumination.
- Several different output capacity models available to best match the illumination purposes
- Application: LED illumination power supply for image processing (24 V output only) suited for area camera imaging
- TPAP-B Series power supply 4-pin output connector (changed from 2-pin as used in TPAP-A Series) ※ An optional 2-pin output connector is available on request. Note that, the ECI operates only with the 4-pin specification.

Power specifications		Analog setting	type PWM con	trol power supp	ply	Digital setting type PWM control power supply					
Model	TPAP1B- 2410NCW	TPAP1B- 2430NCW	TPAP1B- 2450NCW	TPAP2B- 2430NCW	TPAP2B- 2450NCW	TPDP1B- 2410NCW	TPDP1B- 2430NCW	TPDP1B- 2450NCW	TPDP2B- 2430NCW	TPDP2B- 2450NCW	
Light control setting system		Analog se	tting (continuo	us control)	Digital setting (8 bits, 256 gradations)						
Output control method	PWM control (56 ±5 kHz)										
Number of outputs	1ch			1	2ch	1ch			2ch		
Output voltage					24 VDC	C (±0.5V)					
Maximum output current	0.38A	1.12A	1.85A	1.12A	1.85A	0.38A	1.12A	1.85A	1.12A	1.85A	
Maximum output capacity	9W	27W	45W	27W	45W	9W	27W	45W	27W	45W	
External ON/OFF	With external ON/OFF control (pin open: lit, short-circuited: unlit) Logic inversion of ON/OFF control is enabled by the internal settings.										
External light control	With extern	nal light control	(0 VDC to 5 V	DC, continuou	With external light control (8 bits, 256 gradations)						
Input voltage, frequency	100 VAC to 240 VAC, 50/60 Hz (worldwide)										
Output connector/polarity	SMP-04V-BC (J.S.T. Mfg.) / 1: NC, 2: +(DC24V), 3: -(GND), 4: NC										
External control connector	SMP-03V-BC (J.S.T. Mfg.)					DALC-J15SA-23 (Dsub 15 pins)					
External control input specification	1: External light control input 0 VDC to 5 VDC 2: External ON/OFF 3: Common GND					1: COM, 2 to 9: D0 to D7 10 to 11: ON/OFF 12: +5V, 13:GND, 14to15:NC					
Outer dimensions L1	1	73	218	173	218	17.	3	21	8	245	
Outer dimensions L2	1	41	186	141	186	14	1	186		213	
Usage environment		Temperature: 0°C to 40°C, humidity: 20 to 85RH (no condensation), indoor lighting equipment									
Storage environment	Temperature: 0°C to 60°C, humidity: 20 to 85RH (no condensation)										
Cooling system	Natural air cooling										
Mass	600g	650g	850g	650g	850g	550g	650g	750g	850g	900g	

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TPDC2 type

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## Use and features

- Advanced functions (such as external light control, external ON/OF, maximum output current setting/adjustment, cable compensation) at low cost
- Digital light control allows for optimum reproducibility.
- Suited for HIKARI-SHOP high-brightness and low-price LED illumination for image processing
- Select from several power supply models according to illumination needs (number of outputs and capacity).
- Best suited for line cameras and imaging at high shutter speeds

## **Functions**

Constant-current control supply

- TPDC power supply ECI function automatically sets maximum output current according to connected illuminator Furthermore, the ACC function automatically responds to voltage fluctuations even if the extended cable length is changed (up to 10 m) to regulate the brightness of the illuminator.
- ECI (Electronic Calibrate Identify)
- This function automatically identifies connected illuminator, and then automatically adjusts the maximum output current value.
- ACC (Automatic Cable Compensation) This function automatically responds to a change in the cable length between power supply and illuminator or voltage fluctuations in the power-on process to regulate the brightness of the illuminator.
- When selecting power supplies, pay attention to the maximum output current as well as capacity.

Power specifications	Digital setting-type constant-current control power supply										
	TSP18/22	type only	For 24 V drive illumination								
Model	TPDC1- 0510NCW	TPDC2- 0510NCW	TPDC1- 2410NCW	TPDC1- 2430NCW	TPDC1- 2450NCW	TPDC2- 2430NCW	TPDC2- 2450NCW	TPDC2- 240530NCW			
Light control setting system	Digital setting (8 bits, 256 gradations)										
Output control method	Constant-current control										
Number of outputs	1ch	2ch		1ch		2ch					
Output voltage	5 VDC 24 VDC						24 VDCx1, 5 VDCx				
Maximum output current	1.5A	1.58A	0.31A	0.94A	1.5A	0.94A	1.5A	1.4A			
Maximum output capacity	7.5W	7.9W	7.4W	22.5W	36W	22.5W	36W	22.5W			
External ON/OFF	With external ON/OFF control (pin open: lit, short-circuited: unlit) Logic inversion of ON/OFF control is enabled by the internal settings.										
External light control	With external light control (8 bits, 256 gradations)										
Input voltage, frequency	100 VAC to 240 VAC, 50/60 Hz (worldwide)										
Output connector/polarity	SMP-04V-BC (J.S.T. Mfg.) / 1: ECI, 2: +(24 VDC or 5 VDC), 3: -(GND), 4: ECI										
External control connector	DALC-J15SA-23 (Dsub 15 pins)										
External control input specification	1: COM, 2 to 9: D0 to D7, 10 to 11: ON/OFF, 12: +5V, 13: GND, 14 to 15: NC										
Outer dimensions L1	173			200	245	200	245	200			
Outer dimensions L2	133			160	213	160	213	160			
Outer dimensions L3		24	()		16	24	16	24			
Usage environment	Temperature: 0°C to 40°C, humidity: 20 to 85RH (no condensation), indoor lighting equipment										
Storage environment	Temperature: 0°C to 60°C, humidity: 20 to 85RH (no condensation)										
Cooling system		Natural a	ir cooling		Fan cooling	Natural air cooling	Fan cooling	Natural air cooling			
Mass	650g	700g	650g	750g	1,000g	850g	1,000g	850g			

PWM control power supply