

With "Reliable Partners for Sustainable Development" as the core concept, SDG Group is constantly developing ESG enterprises and creating a better environment for our next generation!

Two Mainstream Product Lines Introduction

> Date: 27.10.2022 Mac Tu

Mean Well Product Category





MEAN WELL is regarded as the power brand with the most complete product lines. Two main product lines, Enclosed type and LED driver product lines are the fundamental support for decades of operation and growth, and further consolidate our global leading position in Standard Power Supply.



Enclosed Type





DC/DC Converter

3+N System solutions MEAN WELL has over 10,000 standard power supply and global technical services teams providing customized configurable System solutions.



KNX Product DALI-2 Controller

CMU2 Control and Monitor Unit



Enclosed Type Product Category



None PFC		With PFC
Economic Industrial Power LRS series 35/50/75/100/150/150F/200/350/ 450/600W		General Industrial Power RSP series 75~750W NSP series 1600/3200W High Power with Parallel Function RSP series 1000~3000W PSP series 600~1000W CSP series 3000W(HV)
EconomicMid high Power SE series 1000/1500W		Premium Industrial Power HRP(G) series 75~1000W HRP-N3 series 150/300/600W • High Power with Parallel Function DPU series 3200W • 3 Phases - High Power with Parallel Function RST series 5K/7K5(HV)/10K/15K(HV)W SHP series 10K(HV)W
EconomicMulti-channel Power(Single Vo) RS series15~150W(Dual Vo)RD/RID series35~125W(Triple Vo)RT series50~125W(Quad Vo)RQ series50~125W	and a second sec	Medical Power (2xMOPP/MOOP Level) MSP series 100~1000W
		Conduction Cooling Power(Half potted)LSP/UHP series 200~1500-HV/1500/2500WPHP series 3500/3500-HV W
	-	Harsh Environment Power (Fully Potted IP67) HEP series 100~2300(HV)W

NSP-1600/3200 Product Introduction

- 90~264V AC universal input
- Built-in PV function 40~125%
- <1U height design(41mm)
- CC limiting protection > 5s shut down.
- High efficiency up to 94.5%
- Design refer to SEMI F47
- Functions: OTP / DC-OK /AUX
 / Remote On Off / Remote sense
- 5 Years Warranty
- Released date: 2022.6





3 Phase AC Input RST-7K5/15K Product Introduction

- RST series: RST-5000/7K5(HV)/10000/15K(HV)
- 3Ø4W-Y connection (340~530Vac)
- $3Ø3W-\Delta$ connection (196~305Vac)
- Output: 115/230/380V DC
- High efficiency up to 95%
- Support with parallel function up to 30KW
- FAN cooling or Water cooling (7K5 L type)
- Output Voltage and Current programmable(PV/PC)
- Functions :Remote On Off/DC-OK/OTP/FAN fail/AC fail
- 5 years warranty
- Released date: 2022.09



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SHP-10K Product Introduction 3Ø3W with 340~530V AC input

- Output: 55/115/230/380 VDC ۲
- High efficiency up to 97% ۲

3 Phase AC Input

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- Support parallel connection up to 40KW
- Fan cooling or Water cooling (10K L type) ۲
- Output Voltage and Current programmable(PV/PC) ۲
- **Protocol : CANBus (standard)**, PMBus , MODBus (optional) ۲
- Functions: Remote On Off/DC-OK/OTP/FAN fail/AC fail ۲
- **5** Years Warranty ۲
- Released date: 2022.08



SHP-10KL

(Water cooling)



3 Phase AC Input High Voltage Series Comparison

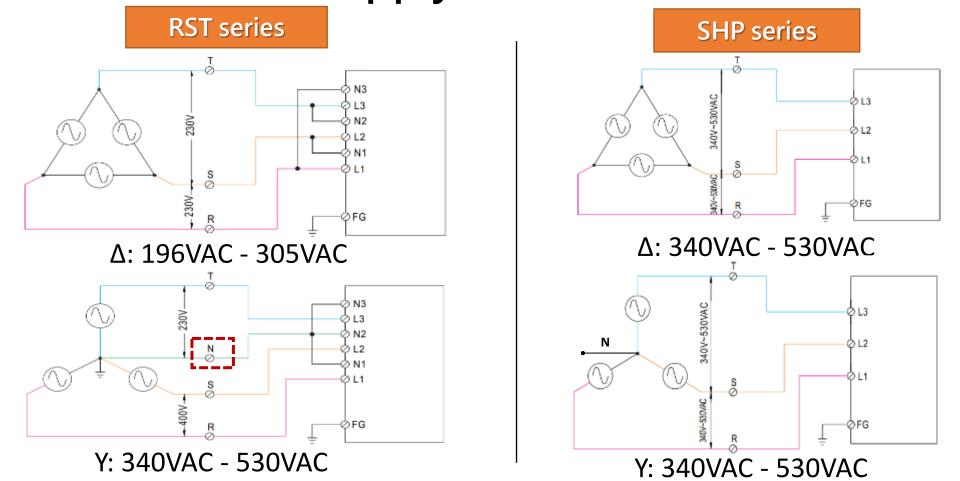


	9	NEW		NEW	NEW
	RST-5K	RST-7K5(L)	RST-10K	RST-15K	SHP-10K(L)
Vout	24/36/48	115/230/380	24/36/48	115/230/380	55/115/230/380
Size	460*2	211*83.5	540*424	4*83.5	460*211*83.5
AC input		<mark>3Ø3W</mark> 340~530V AC			
AUX	NA				12V 1A
PV	20%~120%	<mark>1%</mark> ~120%	20%~120%	<mark>1%</mark> ~120%	<mark>50%</mark> ~120%
PC			20%~100%		
Functions		Remote On Off/DC-OK/OTP/FAN fail/AC fail			
Parallel	3+1(20KW)	3+1(30KW)	1+1(20KW)	1+1(30KW)	3+1(40KW)
Cooling	FAN cooling	FAN cooling or water cooling	FAN cooling	FAN cooling	FAN cooling or water cooling
Digital communication	NA				CANBus-standard PM/MODBus- optional

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3 Phases AC Input Enclosed Power Supply





Input Voltage	Models	Note	
196~305VAC or 340~530VAC	RST-5K/10K/7K5/15K	Support single phase input	
340~530VAC	SHP-10K	Easy for wiring	

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Single Phase AC Input UHP-1500(HV) Product Introduction

- UHP series: 200/350/500/750/1000/1500/1500(HV)/2500
- High voltage application : 115V/230V/380V(380E)
- Fanless, conduction cooling design (semi-potted)
- Output Voltage and Current programmable (PV 50~120% / PC 20~100%)
- Protocol : CANBus / PMBus (optional)
- Built-in DC OK & Remote On Off Signal
- Certification EN/UL62368-1, CE
- Design refer to EN61558-1, EN60335-1
- 5 years warranty
- Released date : 2022.02







Landing page : <u>Conduction Cooling</u>

Single Phase AC Input HEP-2300(HV) product Introduction

- HEP series: HEP-100/150/185/240/320/480/600/1000/2300
- Output: 55V/115V/230V/380V for harsh environment
- Full potted with IP67/IP66 design and 10G vibration
- Output Voltage and Current programable (PV/PC)
- Protocol: CANBus/PMBus/MODBus(optional)
- Charging curve adjustable with SBP-001 (55V)
- Output types: Terminal/Wiring/Harness connector
- IEC62368-1 approved; Design refer to 60335/61558
- 6 years warranty
- Released date : 2022.04

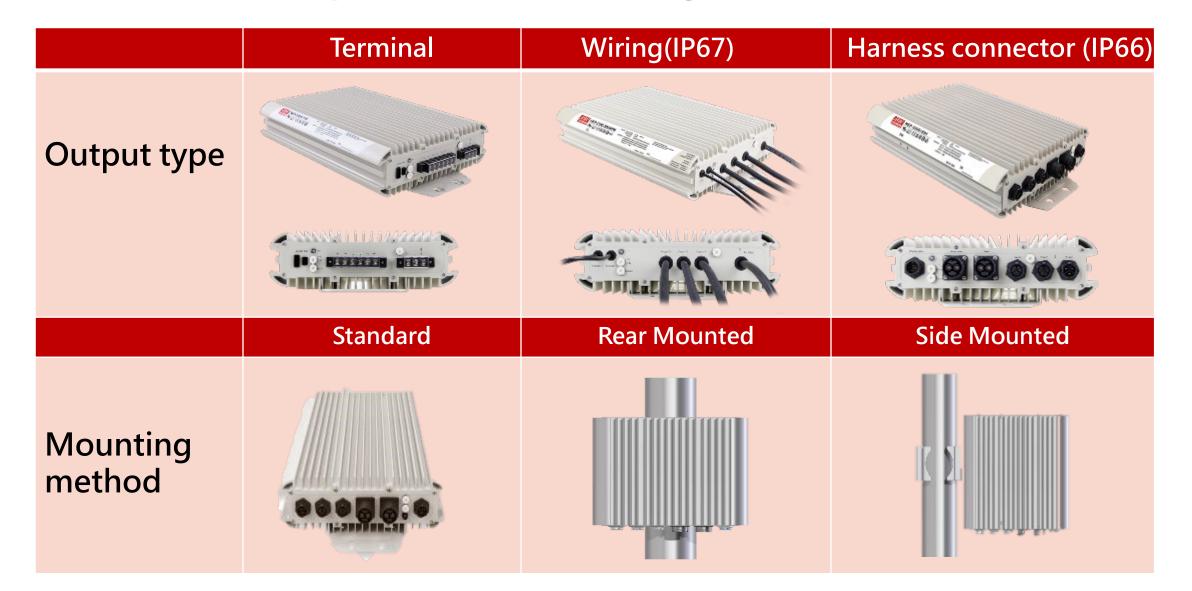






HEP-2300 Output and Mounting Methods





Single Phase AC Input High Voltage Series Comparison



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	UHP-1500-HV	HEP-2300-HV	PHP-3500-HV	CSP-3000	
Series					
Cooling	Fanless design Conduction cooling	Fanless design Conduction coolingFanless design Conduction cooling Or water cooling		Built-in FAN cooling	
Output		120V/250V/400V			
Parallel		3 units (9KW)			
Efficiency		93%			
Function		PV (20%~120%) PC (20%~100%)			
Digital control		N/A			
Size (mm)	290*140*41 375*280*88 380*140.8*60			278*177.8*63.5	
Application	Centralized Bus Power. Indoor/Outdoor application.	Electrolysis equipment Outdoor (charging) application	Laser cutting Energy storage equipment	UV Curing Indoor application © 2022 MEAN WELL All rights reserved	2

PSU Protocol types



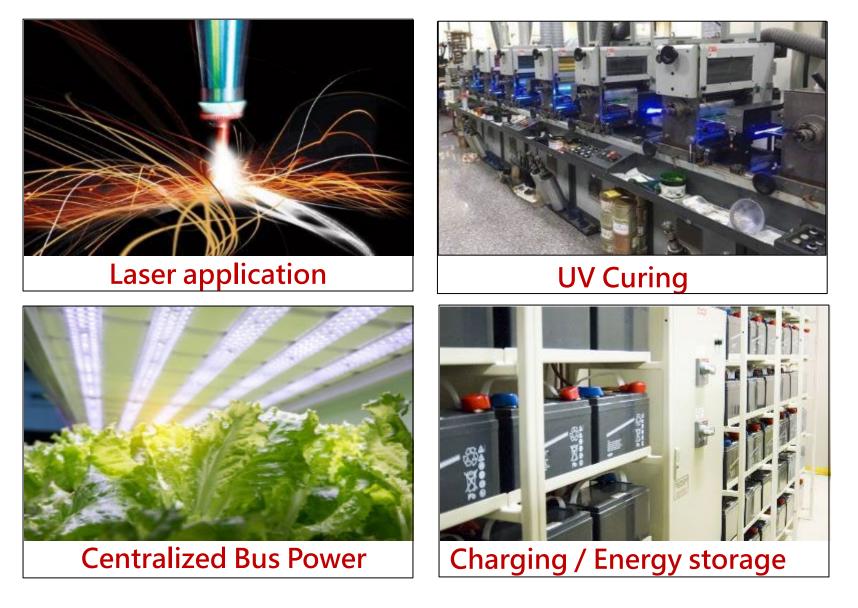
Protocol	Communication Distance	Original Application	Note
PNBLS®	10m	Power supply	Public protocolEasy for design-in
CAN bus	200m	Automobile	 Support Multiple Masters Follow MEAN WELL definition
Modbus RTU	200m	PLC	 Physical layer: EIA- 485(differential signal) Follow MEAN WELL definition

New PSU Protocol list



	PMBus	CAN bus	Modbus	PV/PC
NSP-1600/3200				PV only
RST-7K5/15K				•
SHP-10K				•
UHP-1500(HV)				•
HEP-2300				

High Voltage DC Output (HVDC) applications



HVDC solution

SUSTAINABLE

LED Driver Product Categories



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	Plastic Casing		Metal Casing	
	Non-PFC – Lead Wire Type APV/ APC/ LPV/ LPC Series 8 ~ 150W		Non-PFC – Terminal Block TypeERP Series200W/350WPFC – Terminal Block TypeERPF Series400W	
- man for the second	PFC – Cable Type PLN/ ODLV/ ODLC/ PLD/ PCD/ HLN/ GSV/ LPF/ NPF/ PWM Series 16~ 200W		PFC – Cable Type ELG/ ELGC Series 75W~300W XLG Series 20/25/50/75/100/150/200/240/320W (DALI-2 version)	
Things	PFC – Terminal Block Type PLM/ PLC/ IDLC/ LCM/ LDC/SLD Series LCM-40TW Tunable white(DT8) 12~100W		PFC – High Voltage Input + Cable Type HVG/ HVGC Series 65W~1000W (65/100/150/240/320/480/650/1000W)	
	PFC - Open Frame Type PLP/ HLP/ IDPC/ HBGP Series 20~240W	A STATE OF STATE	PFC – Cable Type HLG/ HLGC Type 40W ~600W (40/60/80/100/120/150/185/240/320/480/600W)	
A TOTAL -	DC-DC Type NLDD/ LDDS/ LDB/ LDH Series NHDD-40 (DC 380V input) 9~65W		PFC – Circular Shape Design + Wire Type HBG/ HBGC Series 60W~300W	
	Multi-master application controller DALI-2 Controller/KNX Gateway(KNX to DALI) DLC-02/DLC-02-KN		XBG Series 100/160/240W © 2022 MEAN WELL All rights reserved	

XLG Series Family



- XLG series: 20/25/50/75/100/150/200/240/320 (new DALI-2 dimming function)
- Full range input 100~305VAC (Class I / Class 2)
- Output Types & Current:

Output Model	12V	24V	L	М	н
XLG-20			350 mA	500 mA	700 mA
XLG-025					0.25~1A
XLG-050 <mark>(DA)</mark>			0.35~0.7A		0.53~2.1A
XLG-075 <mark>(DA)</mark>	V	V	0.7~1A		1.3~2.1A
XLG-100 <mark>(DA)</mark>	V	V	0.7~1A		1.75~2.7A
XLG-150 <mark>(DA)</mark>	V	V	0.7~1A	1.4~2.1A	2.68~4.1A
XLG-200 <mark>(DA)</mark>	V	V	0.7~1A		3.5~5.5A
XLG-240 <mark>(DA)</mark>			0.7~1A	1.4~2.1A	4.28~6.6A
XLG-320(DA)	•	/18A or /13A)	1~1.4A	2.1~2.8A	5.5~7.4A



XLG Family

SLD-150 Series Product Introduction

- SLD series : 50/80/150 (Slim shape).
- Input : 110~305V. Class II design .
- Output : 12/24V (CC+CV mode)
- Output : 48V/56V (CP mode)
- Output <60V, SELV and double insulation.
- Plastic casing, quick plug terminal.
- Protection : Short circuit/OVP/OTP/OCP
- Safety : UL8750, ENEC/CE EN61347-2-13, EN60335 approved
- 3/5 years warranty
- Application: Sign board/Backlight/Linear lighting.
- Release date: Expect in 2023. Q1









LCM-40TW (Tunable-White) DT8 LED Driver

- IEC 62386 DALI 2, Part 101/102/207(DT6)/209(DT8)
- Input 180~277VAC, Plastic case, Class II design (No FG)
- Current via DIP SW : 500/600/700/800/900/1050 mA
- Min. Dimming 0.2%
- Multi-Functional :
 - DALI or Push dim
 - Single or Dual channel output
 - DT6(Dim to warm), DT8(Tunable white)
- Lifetime > 50,000 Hours, 5 years warranty
- Safety: UL8750, ENEC/CE EN61347-2-13, EL approved
- Released date : 2022.05









DC Centralized Bus Application





NHDD-40 (DC 380V Input LED driver)

- NHDD-40 series Step-Down design
- High input DC 380V, CC 100mA output
- Wire type/Pin type or DOB
- PWM dimming and Remote On Off
- Comply with EN61347/EN55015/EN61547

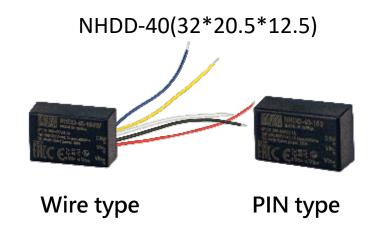
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- Suitable for DC centralized bus lighting application
- Released date: 2021.11

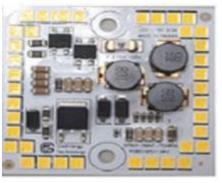
Input range	voltage	current	Efficiency	[R[C E 분동
360~420 V DC	350V (Typical)	100 m A	95%	TPTC004

Output



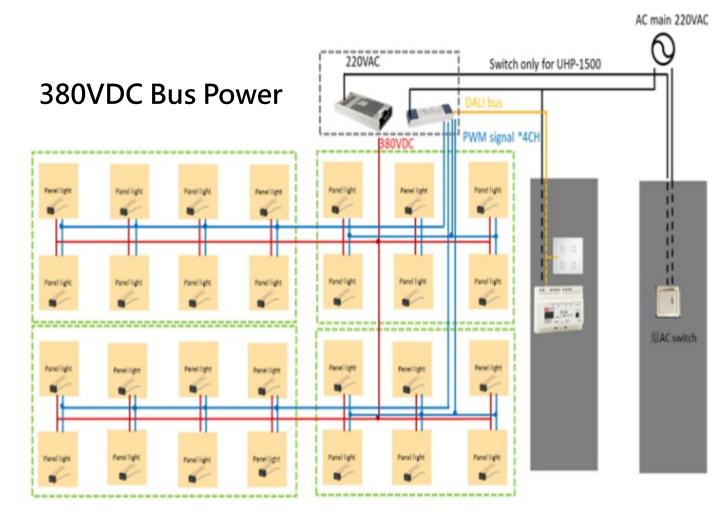


DOB solution



DC Centralized Bus Lighting Application





DC House + DALI-2 system





UHP-1500-380E+NHDD-40

DLC-02 DALI-2 Controller

- IEC 62386 DALI-2, Part 101/103
- Support 207(DT6)/209(DT8)/301/302/303/304
- Dual Channel DALI Bus
- Per channel 64 control gears and 12 input devices
- Built-in 4 Relays with 5A rating
- Built-in Timer/Sequence/Daylight Saving functions
- Software: DLC-02 software
- RJ45 : MODBus communication
- On board LCD display for simple setting and status check
- DLC-02-KN KNX version is available.
- Released date : 2021.06





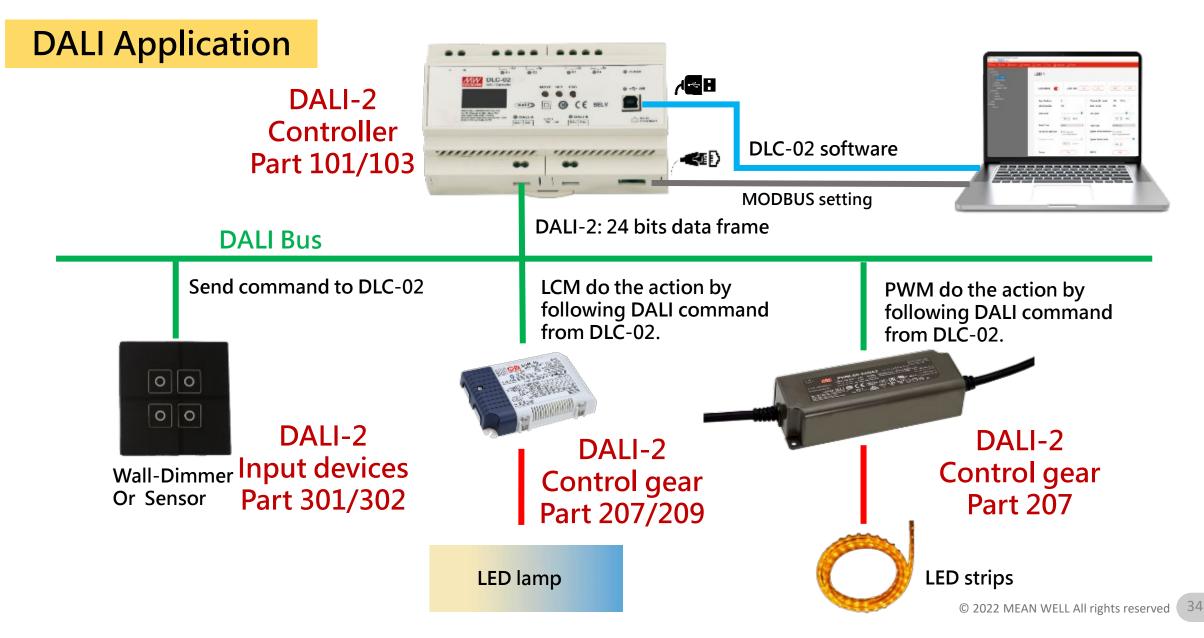




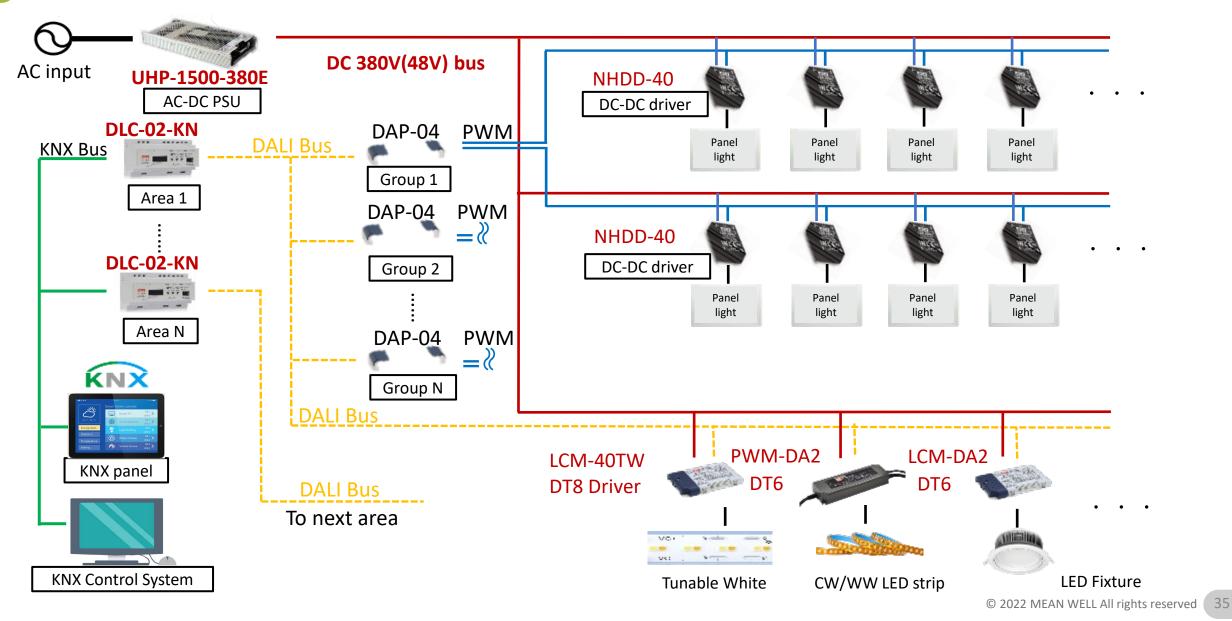


DLC-02 Configuration





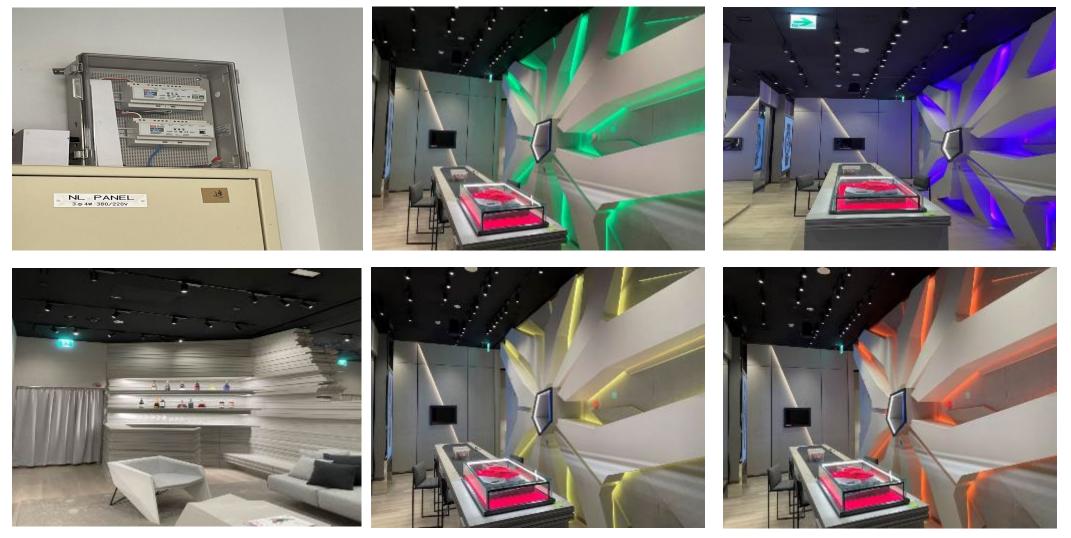
SUSTAINABLE DEVELOPMENT Building Automation + DC Centralized Bus Lighting Solution



DLC-02 Case Study



Project : TAIPEI 101 Boutique watch shop



Summary: Two Mainstream Promotion



• EN60335/EN61558 application requirements

- Promote to new HVDC applications
- Outdoor equipment applications (UHP/HEP series)

DC Centralized bus lighting solutions

LED Driver

Enclosed Type

- Digital lighting control (DALI-2 DT6/DT8 LED driver)
- Building Automation lighting system: DALI + KNX