

## QPEC-DALI2-44-1050 EDS M

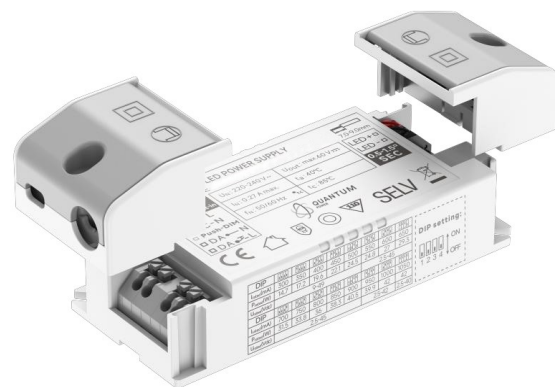
QPEC-DALI2-44-1050-EDS M is a 42w constant current LED driver with 700 to 1050mA output current and a forward voltage range from 9 to 52Vdc. The output current is selectable by DIP Switch. With its dimensions from 9.7 x 43 x 30mm it is easy to integrate in LED Panel, spot and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

### → APPLICATION

- LED panel
- LED spot light
- LED down light
- Strip light

### → FEATURES

- Class II, SELV, built-in.
- Input Voltage 220-240VAC
- Protection SCP/OLP/OVP/OTP
- Power factor 0.95
- Efficiency 87%
- Support DALI II, Push Dimming
- Five years warranty



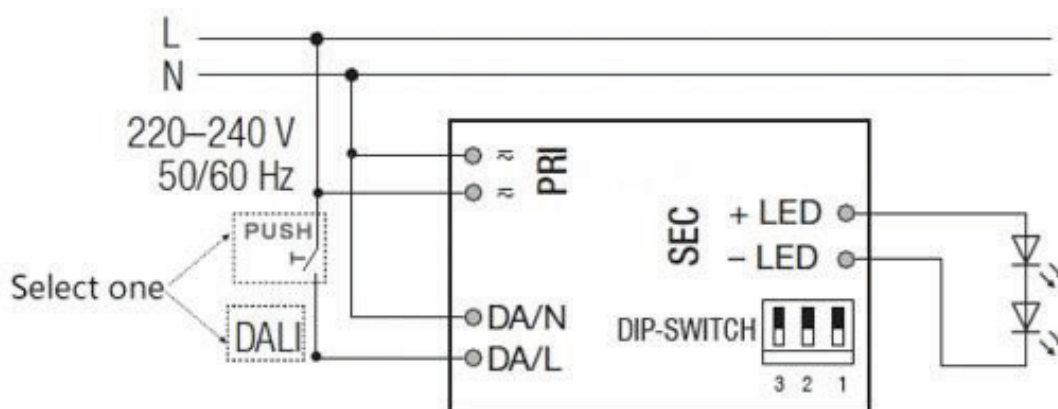
## → Technical data

Input	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	DC voltage range	176-280V
	Frequency(Hz)	0/50/60 Hz
	Power Factor	>0.95 @220-240VAC, full load
	Input Current max	0.34A MAX. @Full Load,176VAC
	Start-up time	<1S
	Unload Power Consumption	≤0.5W
	Inrush Current	30A Max.
	THD	10% Typ. @Fu ll Load, 240 VAC , I <sub>o</sub> =1050mA
Leakage Current	<0.7mA(240VAC)	
Output	Constant Current	700/.../1050mA
	Unload voltage Max.	60 VDC
	Voltage Range(VDC)	9-52VDC
	Rated power	44.1 W Max.
	Current Accuracy	±5% @220-240VAC
	Voltage Regulation	±5% @220-240VAC, fu ll load
	Load Regulation	±5% @220-240VAC
	Hold-up Time	1s max.@Full Load
	Output HF current ripple *Note.2	≤± 10% @Full Load,240VAC
	Output LF current ripple(<120Hz)	≤± 3% @Full Load,240VAC
Efficiency(Typ.)	≥87%	
Dimming	Dimmable	YES
	Dimming mode	DALI II, Push
	Dimming current range	1%~100%
Protection	Over Load Protection	103-120% Protection type: Latch off
	Over Voltage Protection	>60VDC Protection type: Latch off
	Short circuit Protection	Protection type: Latch off
	Over Temperature protection	Protection type: Auto Resume
Environment	Operating Temperature	-20 ...+ 50
	tc	90
	Storage Temperature	-25 ...+60
	Life time	>44,000h@50
Humidity	20% -90%RH	
Safety & EMC	Dimension (LXWXH)	97X43X30mm
	Safety standards	EN 613 47-1; EN61347 -2-13; EN62384
	Withstand voltage	Input-Output : 3750V/5mA/1min
	Isolation resistance	Input-Output : ≥4MΩ@500VDC
	EMI	EN55015; EN61000 -3-2 Class C; EN61000 -3-3
EMS	EN 61547; EN 61000 -4-2; EN 61000 -4-5 — 1000V;	
Note	<p>1. All parameters NOT specially mentioned are measured at 240VAC input , full load and 25 ° of ambient temperature.</p> <p>2. Ripple &amp; Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair -wire terminated with a 0.1uF &amp; 47 uF parallel capacitor.</p>	

**→ ADJUSTABLE OUTPUT CURRENT WITH DIP-SWITCH**

Vo	Po	Io	3	2	1
9-52VDC	36.4W	700mA	--	--	--
9-52VDC	39W	750mA	--	--	ON
9-52VDC	41.6W	800mA	--	ON	--
9-49VDC	41.7W	850mA	--	ON	ON
9-49VDC	44.1W	900mA	ON	--	--
9-46VDC	43.7W	950mA	ON	--	ON
9-44VDC	44W	1000mA	ON	ON	--
9-42VDC	44.1W	1050mA	ON	ON	ON

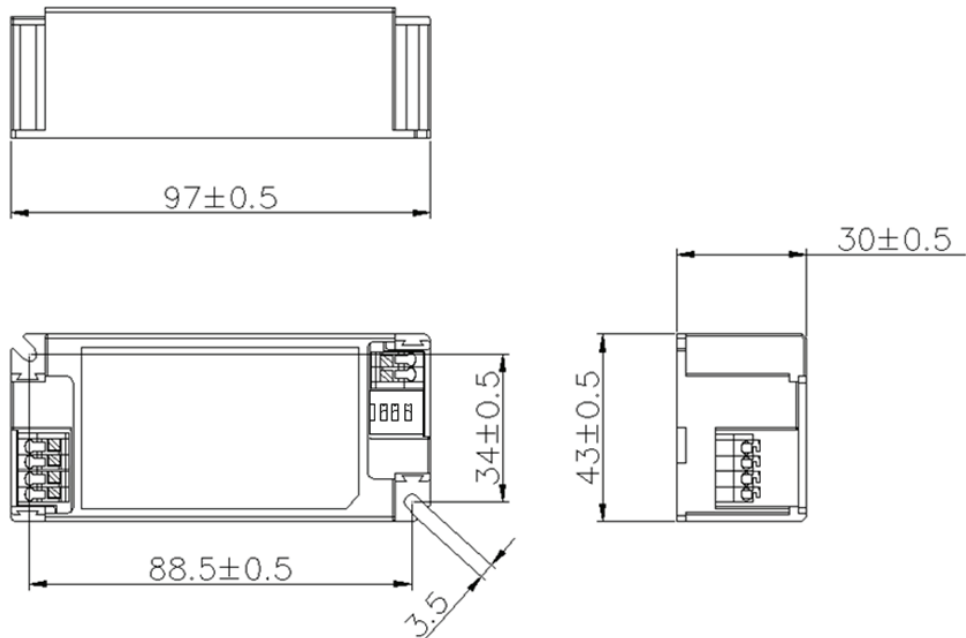
**→ WIRING DIAGRAM:**



**LED DRIVER INDOOR  
CONSTANT CURRENT  
Dimmable - DALI2 Mini**

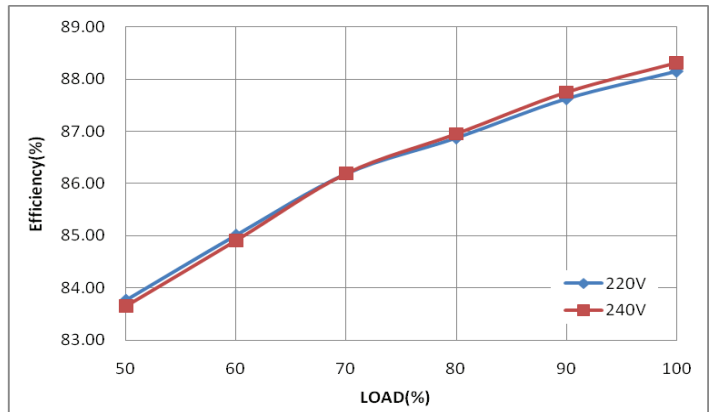
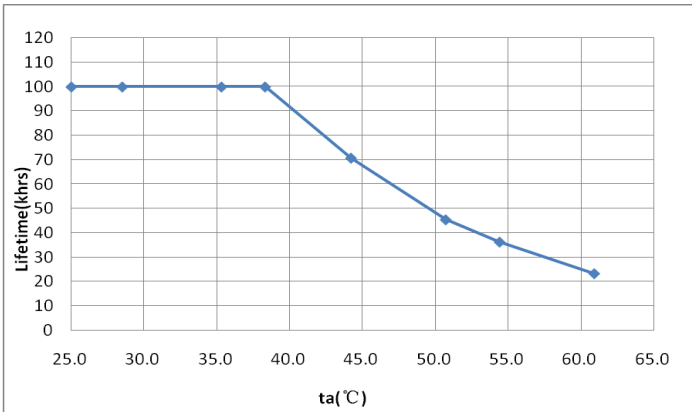
**QPEC-DAL2-44-1050 EDS M**

**→ 2D DIAGRAM**



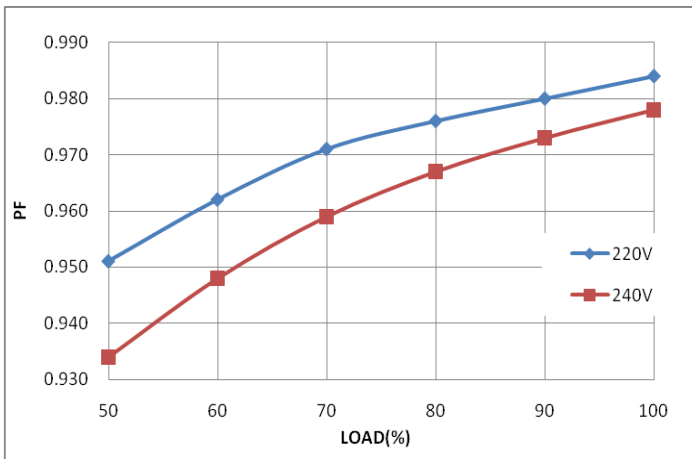
**→ CURVE FOR QPEC-DAL2-44-1050 EDS M**

**LIFETIME VS. AMBIENT TEMPERATURE CURVE    EFFICIENCY VS. LOAD**

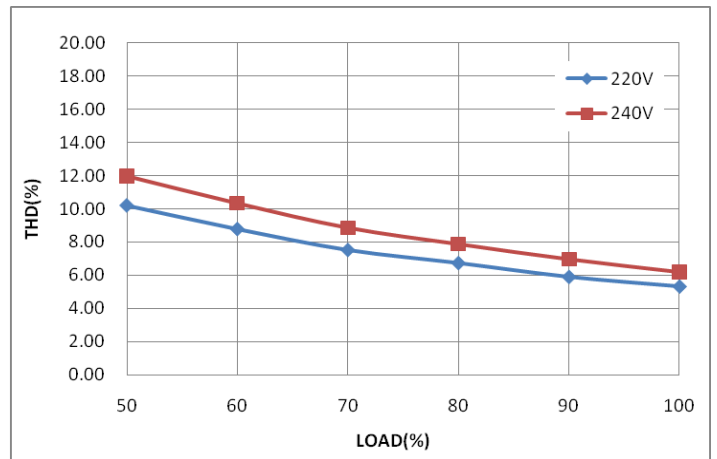


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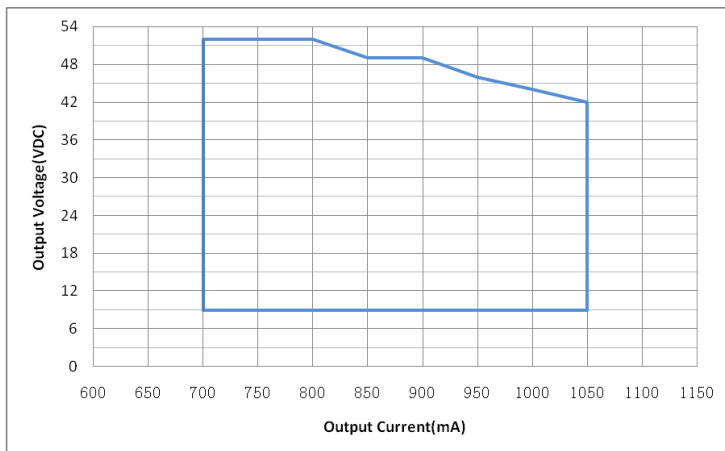
**POWER FACTOR CHARACTERISTICS**



**THD VS. LOAD**



**OPERATING WINDOW**



Operating window 100%