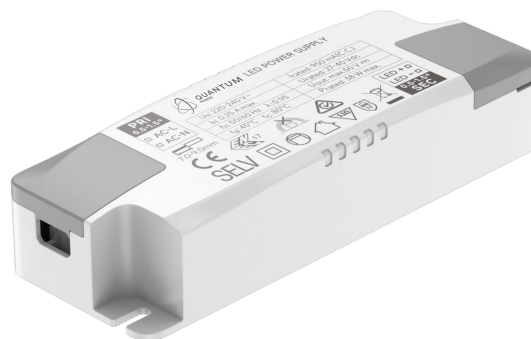


21W CONSTANT CURRENT STANDARD SERIES

Constant current LED driver that operates from 176-264Vac input with 300 to 700mA output current. With it's compact dimensions from 100 x 38 x 25mm it is easy to integrate in LED Panel 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



→ FEATURES

- Flicker free
- Class II, SELV, independent
- Protections: SCP/OLP/OVP
- Power Factor $>0.6C$
- Efficiency $\geq 85\%$.
- Five years warranty



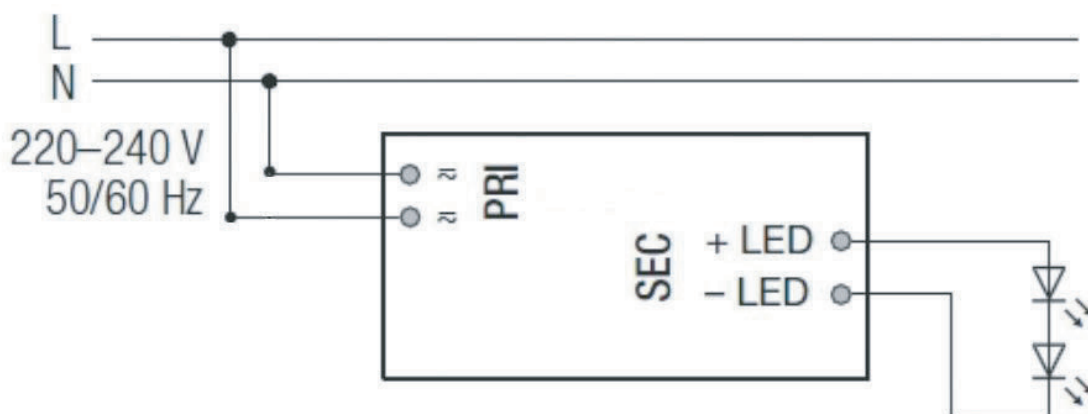
➔ Technical data

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	0.6C@Full Load,240VAC				
	Input Current max	0.3A MAX. @Full Load,176VAC				
	Start-up time	< 0.5S				
	Unload Power Consumption	≤0.5W				
	Inrush Current	30A Max.				
Output	Constant Current Max.	300mA	400mA	500mA	...	700mA
	No load voltage Max.	80VDC	60VDC	50VDC	...	40VDC
	Output Voltage Range	42-70VDC	30-50VDC	25-42VDC	...	18-30VDC
	Rated power	21W Max.	20W Max.	21W Max.	...	21W Max.
	Load Regulation	±5%@220-240VAC				
	Hold-up Time	1s max.@Full Load				
	Efficiency(Typ.)	≥85%				
Protection	Over Load Protection	103-120%				
	Over Voltage Protection	Protection type: Auto Resume				
		> 60VDC	> 60VDC	> 50VDC	...	> 40VDC
		Protection type: Auto Resume				
	Short circuit Protection	Protection type: Auto Resume				
Environment	Operating Temperature	-20°C...+45°C				
	tc	80°C				
	Life time	> 50,000h@45°C				
	Humidity	20%-90%RH				
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62384				
	Withstand voltage	Input-Output : 3750V/5mA/1min				
	EMI	EN55015; EN61000-3-2 Class A; EN61000-3-3				
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —1000V;				
Note	Dimension	100X38X25(LXWXH)mm				
		Ripple and noise are measured at 20MHZ of bandwidth by using a 300mm twisted pair-wire terminated All parameters NOT specially mentioned are measured at 240VAC input, full load and 25C of ambient				

➔ **MODEL LIST**

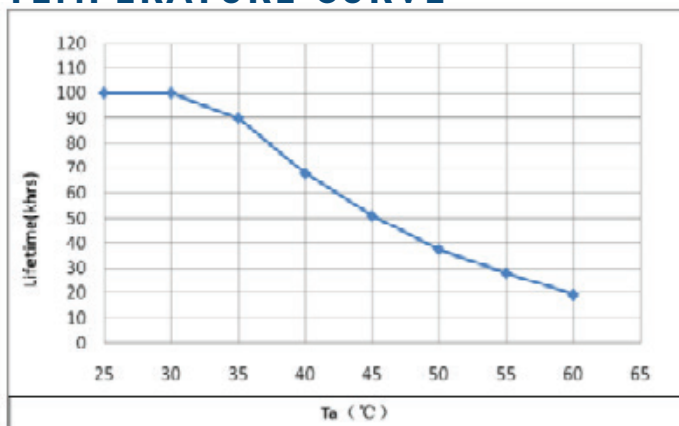
NO.	Model number	Input			Output			Max. Prated(W)
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	
1	QPEC-S-21-300 E	220-240	0.3	50/60	300	42-70	80	21
2	QPEC-S-21-350 E	220-240	0.3	50/60	350	36-60	70	21
3	QPEC-S-21-400 E	220-240	0.3	50/60	400	30-50	60	20
4	QPEC-S-21-450 E	220-240	0.3	50/60	450	28-46.5	57	21
5	QPEC-S-21-500 E	220-240	0.3	50/60	500	25-42	50	21
6	QPEC-S-21-550 E	220-240	0.3	50/60	550	23-38	50	21
7	QPEC-S-21-600 E	220-240	0.3	50/60	600	21-35	45	21
8	QPEC-S-21-650 E	220-240	0.3	50/60	650	19.5-32	42	21
9	QPEC-S-21-700 E	220-240	0.3	50/60	700	18-30	40	21

➔ **WIRING DIAGRAM**

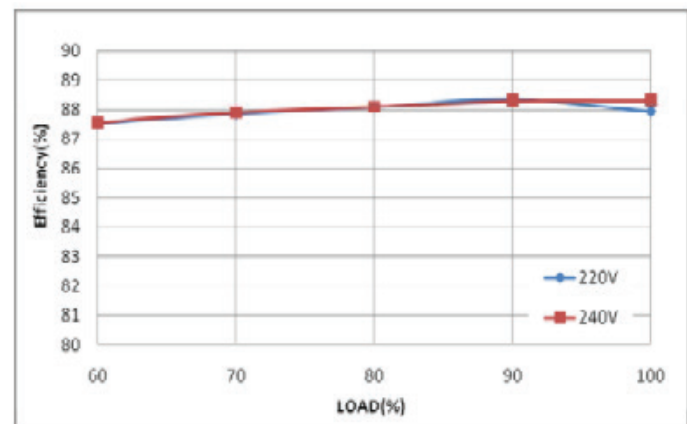


➔ **FUNCTION CURVE FOR GLEC-S-21-XXX E, IO=700MA**

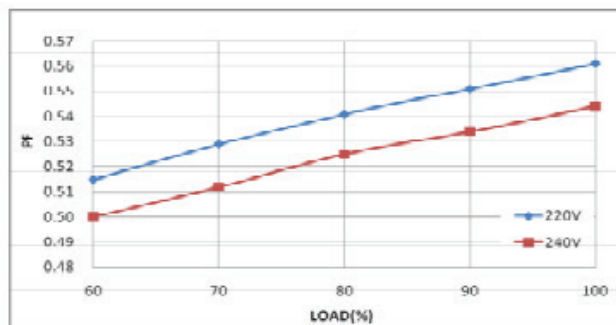
**LIFETIME VS. AMBIENT
TEMPERATURE CURVE**



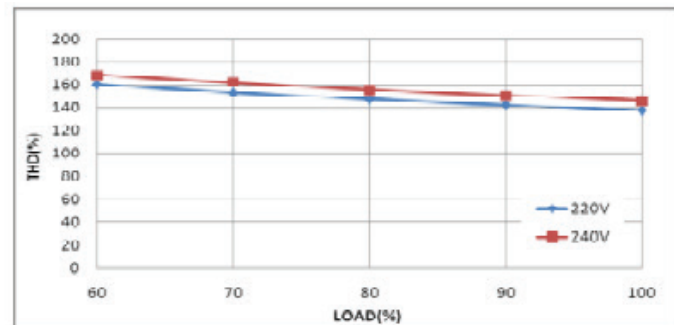
EFFICIENCY VS LOAD



POWER FACTOR CHARACTERISTICS



THD VS. LOAD



LED DRIVER INDOOR
CONSTANT CURRENT
STANDARD

QPEC-S-21-XXX E

→ DIMENSIONS

