

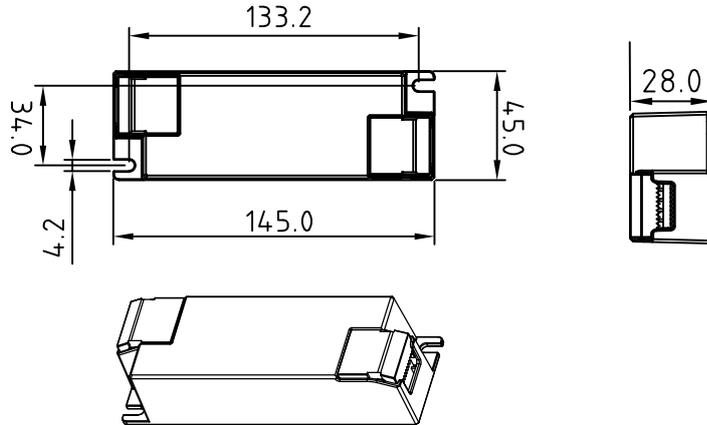


## Features:

- Casambi-enabled NFC programmable constant current LED driver
- 45W single-channel output, adjustable 500~1400 mA via NFC
- Smooth, flicker-free dimming for LED lighting
- IP20: Ingress Protection
- 5 year warranty

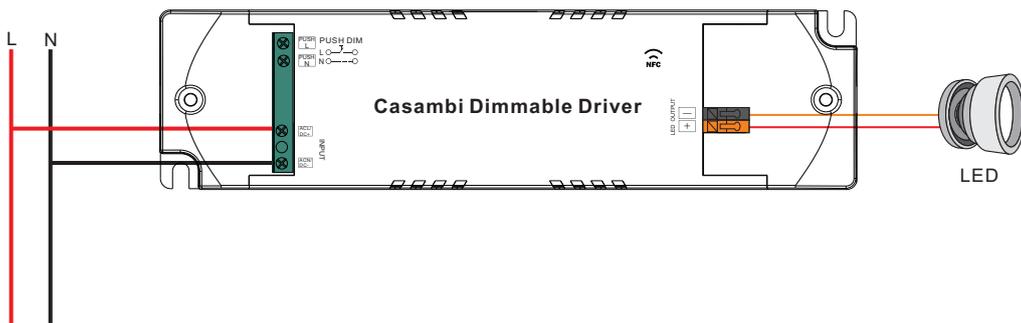
Model		SRP-CA9105N-45CC500-1400
Output	LED Channel	1
	DC Voltage	6~54V, Max. 60V
	Current	500~1400mA via NFC Tool; Min. current gear lower to 0.1mA, default 900mA
	Current Accuracy	±3% (±1@Certain full load) @ full load
	Rated Power	Max. 45W
Input	Voltage Range	220~240VAC / 220~240VDC
	Absolute Voltage Range	196~264VAC / 196~264VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	>0.95 @ 230VAC Full load*
	Total Harmonic Distortion	THD ≤ 12% (@ full load / 230VAC)
	Efficiency (Typ.)	> 85% @ 230VAC full load*
	AC Current (Typ.)	0.3A Max
	Inrush Current (Typ.)	Max. 8.56A at 230VAC;88μs duration
	Leakage Current (Typ.)	< 5mA / 230VAC
	Anti-Surge	L-N: 2KV
Control	Dimming Interface	Casambi
	Dimming Range	0.01%-100% @ Max current
	Dimming Method	Amplitude/CCR Dimming
	Dimming Curve	Linear/Logarithmic optional
Protection	Short Circuit	Yes, remove the fault conditions and re-power the device.
	Over Current	Yes, remove the fault conditions and re-power the device.
	Over Temperature	Yes, remove the fault conditions and re-power the device.
Environment	Working Temp	-25°C ~ +45°C
	Max. Case Temp	TC=85°C
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	EMC Emissions	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
	Dimensions	145*45*28mm (L*W*H)
	Warranty	5 Years
Safety & Warnings	<ul style="list-style-type: none"> <li>• DO NOT Install with power applied to the device</li> <li>• DO NOT expose the device to moisture</li> </ul>	
Notes	<p>*PF/THD/Eff shall be different per different testing setup and equipment.</p> <ul style="list-style-type: none"> <li>• Casambi dimmable LED driver, works with Casambi network</li> <li>• 1 channel dimmable LED driver.</li> <li>• Class II power supply, full isolated plastic case</li> <li>• High power factor and efficiency</li> </ul>	<ul style="list-style-type: none"> <li>• To switch and dim LED lighting luminaries</li> <li>• Amplitude/CCR dimming, smooth and deep dimming</li> <li>• IP20 rating, suitable for indoor LED lighting applications</li> <li>• 5 years warranty</li> </ul>

## Mechanical Specifications

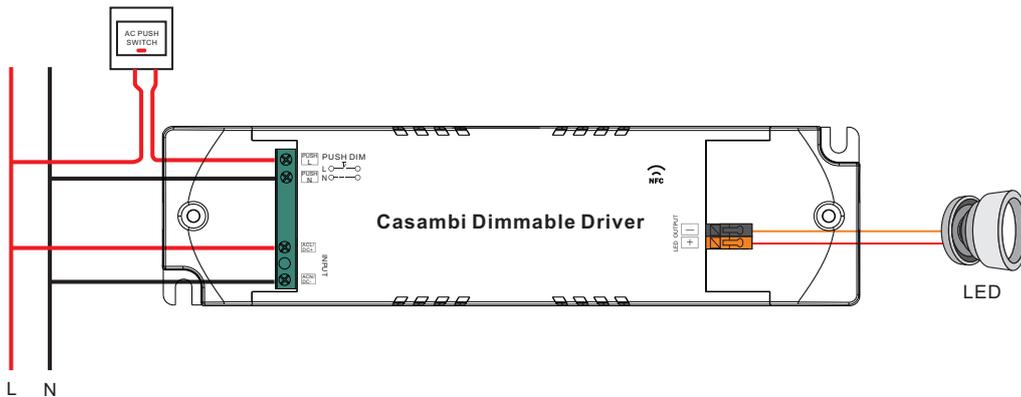


## Wiring Diagram

### Application 1 (Without PUSH)



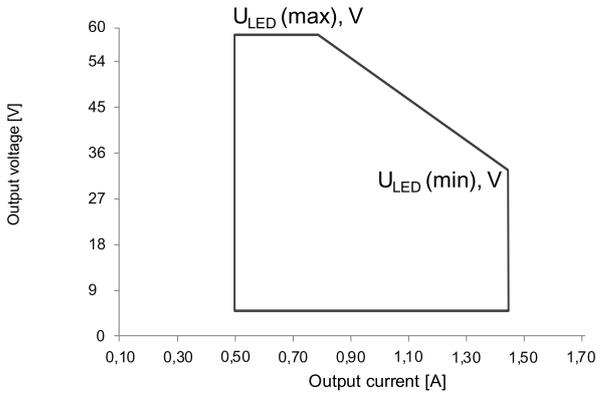
### Application 2 (With PUSH)



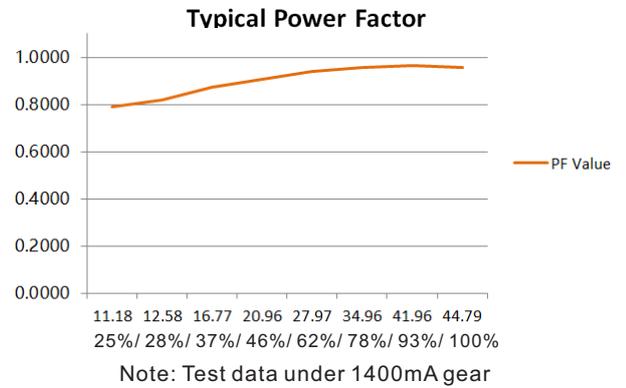
### Push Dim

- 1) Short press to switch on or off.
- 2) Long press to dim up or dim down.

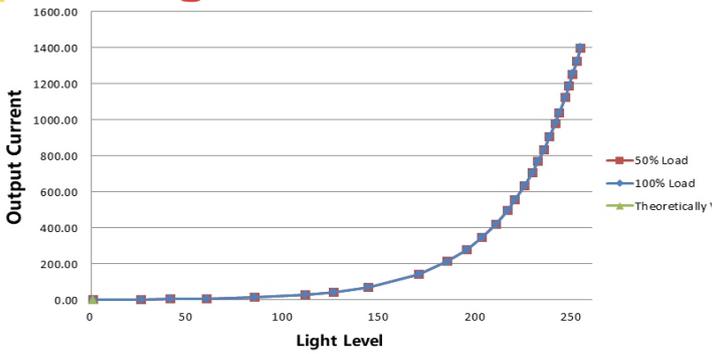
## Operating Window



## Driver Performance

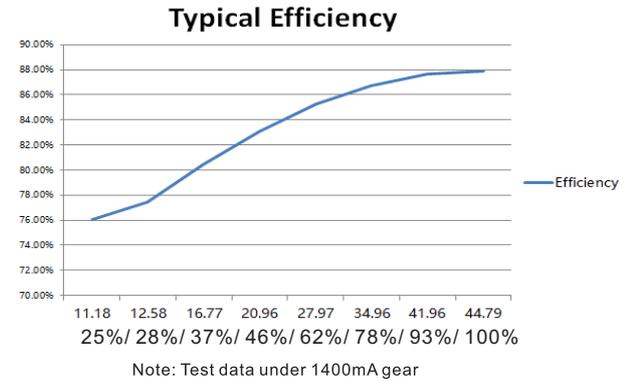


## Dimming Curve

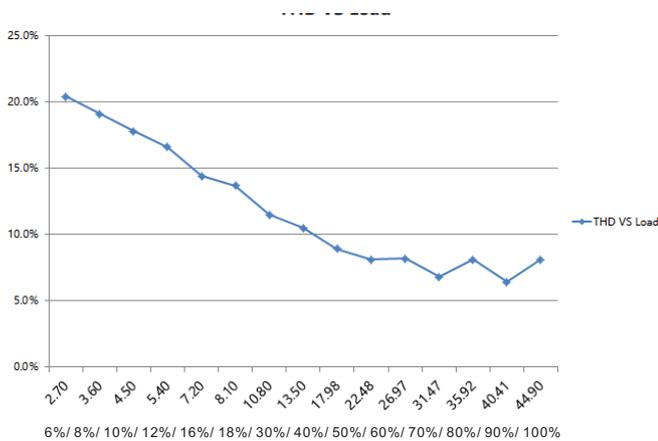


Note: Test data under 1400mA gear

## Driver Performance



## THD VS Load



Note: Test data under 1400mA gear

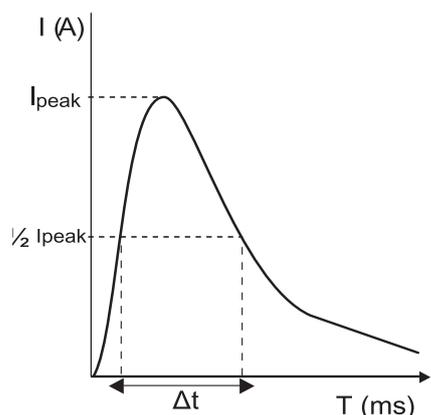
## Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	...
SRP-CA9105N-45CC500-1400	500 – 1400 mA	Tc	50 °C	60 °C	68 °C	... 85 °C

The LED driver is designed for a lifetime stated above under reference conditions.  
The relation of tc to ta temperature depends also on the luminaire design.

## MCB Load Quality

Module Number	Ipeak	Twidth	Max. quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-CA9105N-45CC500-1400	8.56A	88µs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80



Note:

1. Those MCB parameters are based on ABB S200 series circuit breakers.
2. For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
5. Type C MCB's are strongly recommended to use with LED lighting