

- The driver has 10 current levels settable with dip-switches
- Support central emergency application (dimming normal in DC input)
- Support DALI and Push Dimming mode

### TECHNICAL DATA:

	C.C. 22W 225-600mA		Sisteon						
	ergency application (dimm								
TECHNICAL DATA:									
Model	5601312								
Output parameters	Regulation method	Constant Current							
	Rated output current	0,225-0,60A							
	Rated output voltage	6-42V							
	Rated output power	22,8W Max							
	Output current adjustment	DIP Swich with (10 levels)							
	Output current ripple LF	±2%	_						
	Output current accuracy	±2%							
	Linear regulation	±1%							
	Load regulation	±1%							
	No load output voltage								
	Flicker-free (typical)								
	Rated input voltage	200-240VAC - 200-240VDC							
Input parameters	Rated input voltage	180-264VAC - 180-264VDC							
	Input voltage shock	<380V AC, 1h							
	input current	<0,18A (AC input)							
	Input frequency	</td							
		>0,95 (230V AC & Full load)							
	Input power factor	<10% (230V AC & Full load) <10% (230V AC & Full load)							
	Input THD	86% (230AC & Full load)							
	Efficiency (typical)	6.5A peak, 192µs duration (50% lpeak), see the description below for details							
	In-rush current	6.5A peak, 192µs duration (50% lpeak), see the description below for details <0,6s(AC start), <0,6s(DC start), <0,3s(AC/DC switchover), <0.5s(Turn off)							
	Start/Swichover/Turn off	<0,65(AC start), <0,65(DC start), <0,35(AC/DC switchover), <0.55(Turn off) >50,000 switching cycles							
	Switching cycles								
	Power consumption	Full load(Pmax):22,8W, No Load(Pno):N/A, On stand-by(Psb):<0,5W, Network stand-by(Pnet):N/A							
Safety	Withstand voltage		P(DIM):500V AC, I/P-O/P(DIM):500V AC, I/P-DALI: 500V AC						
Jurety	Mains surge capability	L-N:2KV							
	Leakage current	<0,7mA (230V AC & Full load)							
	Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH							
Control Interface	DALI dimming port	Voltage range: 9,5-22,5V, typical 16V, interface current consumption: 1,8mA Voltage range: 180-264V 47/63Hz							
control interface	PUSH dimming port	Voltage range: 180-264V 47/63Hz							
	Dimming range	1%-100%							
	Dimming drive mode	AM (amplitude modulation)							
Franciscon e composit	Central emergency system	Supported (dimming normal in DC input)							
Emergency support	Self-contained emergency	Supported							
Fourisson and St. Lifetings	Operating temperature	Ta=-20+50°C							
Environment & Lifetime	Case temperature	Tc=90°C							
	Operating humidity	5-85% RH, not condensed							
	Storage temp/humidity	-40+80°C, 5-85% RH, not condensed							
	IP grade	IP20							
	MTBF	500,000H, MIL-HDBK-217F(25°C)							
	Life-time	Nominal life-time up to 100,000 h, see the description below for details							
	Vibration resistant	10-500Hz, 5G 12min/1cycle, period for 72min each along X,Y,Z axes							
	Acoustic Noise	<25dB(30cm, Full load)							
	Environment protection	RoHS							
	Certified	EMC, CE							
Certifications and standards	Safety	EN61347-1, EN61347-2-13, EN62384							
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547							
	EL	Compatible IEC 61347-2-13 Annex J,	Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172						



SURGE:

Model			vidth Condition	Relative number of MCB														
	Ipeak	Twidth		B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
5601312	6.5A	192us	AC 230V, Full load Cold start, Ta ≤30°C MCB is not installed side by side	65pcs	65pcs	80pcs	100pcs	124pcs	59pcs	77pcs	94pcs	118pcs	147pcs	59pcs	77pcs	94pcs	118pcs	147pcs

#### Remarks:

Calculation uses typical valus from ABB series S200 as a reference.

#### Functions:

Output short-circuit behaviour In case of a short-circuit at the LED output, the LED output is swiched off. After restart of the LED driver, the output will be activated again. The restart can either be done via mains reset or via interface (DALI, PUSH-DIM).

#### Output no-load operation

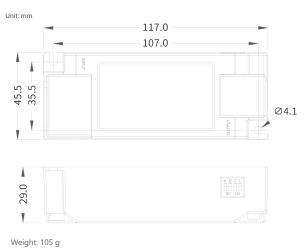
The LED driver will not be damaged in no-load operation. The output will be deactived and is therefore free of voltage. If a LED load is connecyed, the device has to be restarted before the output will be actived again. The restart can either be done via mains reset or via interface (DALI, PUSH-DIM).

#### Output overload protection

If the output voltage range is exceeded the LED drivers turns off the LED output. After restart of the LED driver the output will be actived again. The restart can either be done via mains reset or via interface (DALI, PUSH-DIM).

Output hot plug-in For protection LED if plug the LED into the output of the powered driver, the LED will not on, the device has to be restarted. The restart can either be done via mains reset or via interface (DALI, PUSH-DIM).

#### MECHANICAL DIMENSIONS



## Installation note:

Hot plug-in is not supported due to residual output voltage of > 0 V Max lenght of output wires is 2 m (ideally 5-10 cm distance) Max torque at the clamping screw: 0.5Nm / M4

Raplace LED module: 1. Mains off 2. Remove LED module 3. Wait for 5 seconds 4. Connect LED module again

DIP-swich & output current

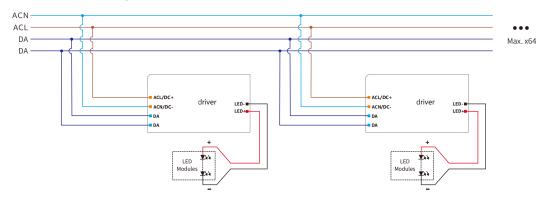
Prated	Irated	output voltage	1	2	3	4
9.45W	225mA	42VDC		ON	ON	ON
10.50W	250mA	42VDC	ON		ON	ON
11.55W	275mA	42VDC			ON	ON
12.60W	300mA	42VDC		ON		ON
14.70W	350mA	42VDC				ON
16.80W	400mA	42VDC	ON	ON	ON	
18.90W	450mA	42VDC			ON	
21.00W	500mA	42VDC		ON		
23.10W	550mA	42VDC	ON			
22.80W	600mA ★	38VDC				

Remarks:

 $1 \neq$  It means that this item is the factory default current 2 -- It means that this channel is OFF



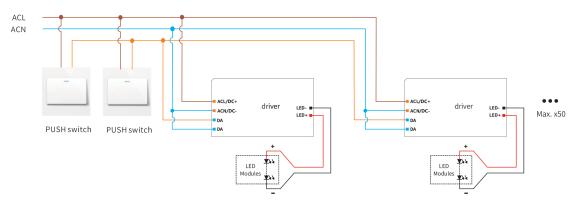
DALI dimming application (the driver will automatically switch to the DALI control mode)



#### Remarks:

Kemarks: Standard DALI control line voltage rage : 9,5V to 22,5V, type 16V The two DALI control lines polarity-reversible Max 64 DALI drivers per DALI control line The maximum distance lenght of the DALI control line is 300m at 2X1,50mm<sup>2</sup> The configuration parameters of the driver can be set through the DALI configuration tool or DALI application controller during installation, such as setting device address, group address, power-on level, the we followed used access through the DALI configuration tool or DALI application controller during installation, such as setting device address, group address, power-on level, bus-failure level, scene level, fade time, dimming curve, etc.

#### PUSH dimming application (the driver will automatically switch to PUSH dimming mode)



#### Remarks:

Max 50 drivers per PUSH control line Turn on or turn off: short press push swich for 0.2-1s Dimming: long press push swich for 1-5s

Power on status: after power on, the light state will be the same as the tighting on state

# Multiple lights synchronize control operation: Long press the PUSH swich 15s, all lights output to the brightest state