

General - Outdoor

DWG NO.: MSSD-5453

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subject to change without notice

■ Features

- · Input voltage: 90-305VAC
- · Built-in active PFC function: 0.99 Typ.
- · Low THD: 10% Typ.
- · High efficiency: 93% Typ.
- · IP67 design for indoor or outdoor installations
- · High surge immunity
- · Support Time-shared dimming function
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations















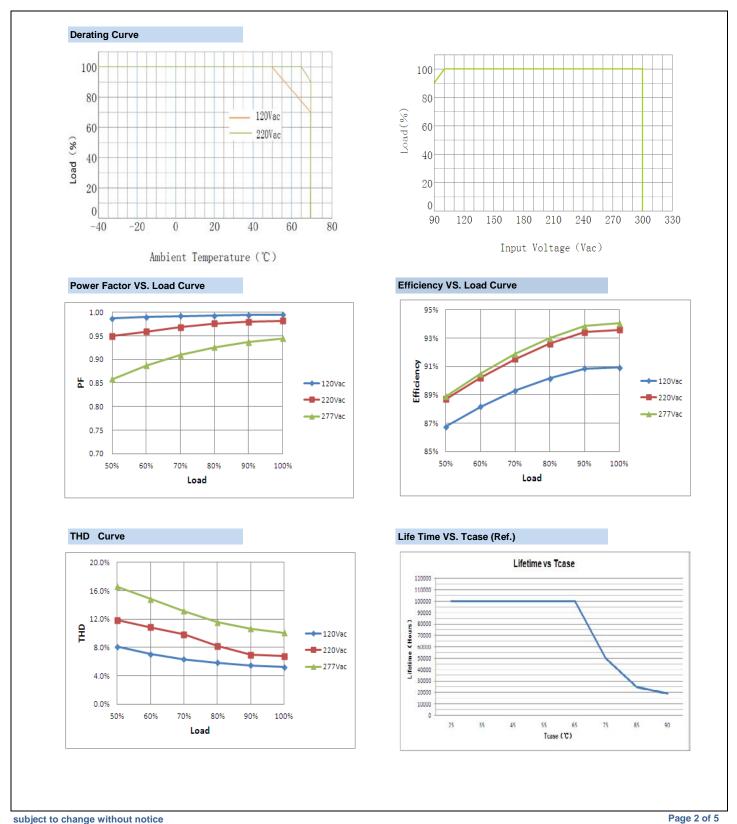


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■ Specification																				
	Model																			
(MU	150HXXXAQ_CLKS) (1)	035	045	053	070	085	105	120	140	150	175	185	210	245	280	300	315	350	420	500
(MU1	150HXXXAQ_CLKS/II) (2)																			
	Efficiency(120Vac)(Typ.) _{Note.1}	90.0%	90.0%	90.0%	90.0%	90.0%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%	88.0%	88.0%	88.0%	88.0%	88.0%
	Efficiency(230Vac)(Typ.) _{Note.1}	93.0%	93.0%	93.0%	93.0%	93.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	91.0%	91.0%	91.0%	91.0%	91.0%
	Voltage Range (V) _{Note.2}				90 ~	305Vac	, OR 12	7~ 430V	dc (Dera	ating ma	y be nee	ed under	low inpu	ıts, Refe	r to 'De	ating Cu	ırve')			
	Voltage Rate (V) _{Note.2}									100	Vac-27	7Vac								
	Frequency Range (Hz)										47~63									
								C	.99 (Typ	o.) with 8	0%~100)% load,	at 120Va	ас						
Input	Power Factor(Typ.)		0.96 (Typ.) with 80%~100% load,at 230Vac																	
									>0.9 v	vith 80%	~100%	load,at 2	77Vac							
	THD(Typ.)									20VAC i	•							88.0% 88.0 91.0% 91.0 ster for less the series of the TC reaction of		
	1115(1yp.)						<	:15% at		and 27				00% loa	ad					
	AC Current(Typ.)									100VA										
	Inrush Current(Max.)	65A at	230Vac	input 2	5℃ Cold												Noise F	ilter for l	ess than	0.2ms)
	Leakage Current(Max.)			•	•					ut for cla				60Hz in	put for a	lassII			•	
	Voltage range (V)	214-428		142-283	107-214	88-176		63-125	54-107	50-100	43-85	41-81	36-71	31-61		25-50	24-48	21-42		15-30
Output	Rated Current(mA)	350	450	530	700	850	1050	1200	1400	1500	1750	1850	2100	2450	2800	3000	3150	3500	4200	5000
	Rated Power (W)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
	Ripple&Noise Current(Typ.)							≤1 0%((PK-AV)	/AV) wit	h LED d	efault m	ode and	full load)					
Output	Current Tolerance										±5%									
	Line Regulation										±1%									
	Load Regulation		±3%																	
	Current ADJ. Range		-																	
	Turn on delay Time								<1.2	s, at 120)Vac; <	1s, at 27	7Vac							
		599	466	396	300	246	199	175	150	140	119	113	99	85	74	70	67	59	88.0% 88.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0%	42
D:	Over Voltage(V)					Hic	cup mod	de.The p	ower su	pply sha	ll be self	f-recove	y when	the fault	is remo	ved.				
Protection	Protection Short Circuit							Hiccup mode.The power supply shall be self-recovery when the fault is removed. Protection type: Constant current limiting.												
	Over temperature	Pr	otection	tvpe : D	ecrease	output o	current.								se to 50°	% rate va	alue unti	I the TC	reaches	75±15
	Operating Temp.			-,,,,,,,						70°C(Re	-									
	Tc										90°C ma		/							
	Operating Humidity										0~95%F									
Environment	Storage Temp., Humidity																			
	Storage Temp., Humidity -40~+80°C , 10-95%RH Temp. Coefficient 0.03%°C (0~50°C)																			
	Vibration						10-500)Hz 5G 1	12min/cv	cle , pe	`		ch alon	Y X r	7 axes					
	Safety Standard		UL8750, UL1012, CAN/CSA-C22.2No.107.1-01,EN61347-1, EN61347-2-13 ,EN60598-1,EN62384,GB19510.1,GB19510.14,GB7000.1											88.0% 88.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0%						
	Withstand Voltage																		60% 88.0% 91.0% 91.0% 91.0% 91.0% 150 150 150 TC reaches 100% RH for class II 0% RH for c	
Safety &	Isolation Resistance	VP-O/P:3.75KVAC VP-FG:1.875KV O/P-FG:1.5KV for class VP-O/P:3.75KVAC VP-Case:3.75KV O/PCase:1.5KV for class VP-O/P VP-FG,O/P-FG:100M Ohms/500VDC/25°C/70%RH for class VP-O/P VP-FG,O/P-FG:100M Ohms/500VDC/25°C/70%RH for class VP-O/P VP-Case,O/P-Case:100M Ohms/500VDC/25°C/70%RH for class VP-O/P VP-Case;0/P-Case:100M Ohms/500VDC/25°C/70%RH for class VP-O/P VP-Case;0/P-Case:100M Ohms/500VDC/25°C/70%RH for class VP-O/P VP-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;0/P-Case;																		
EMC	EMC Emission		-				EN550	15/FCC	Part 15	Class B	, EN61	000-3-2	Class C	, EN61	000-3-3					
	EMC Immunity 0-4-2,3,4,5,6,8,11 (Surge L,N-FG 6KV , L-N 4KV) , EN61547 for class I;EN61000-4-2,3,4,5,6,8,11 (Surge L,N-Case 4KV , L-N 4KV)) , EN	61547 f										
	MTBF									asured a							-	88.0% 88.0% 88.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0		
	Lifetime									: 75℃(R									14,GB7000.1 for class II 70%RH for cla	
Others	Dimension									x 67.5 x				•						
	Weight										05kg(Ty		-						88.0% 88.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0% 91.0%	

Note.1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages, Please Refer to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature;

DWG NO.: MSSD-5453





MU150HxxxAQ_CLKS Series General - Outdoor

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■ Instruction

1. Field Programmable Topology



The programmable driver can be programmed by using special PC software and the programmer module.

2.Dimming Interface Description

Pin description

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Pin	Name	Value	Description
1	Vaux 12V	10.8V-13.2V	Passive dimmers power supply
2	Dim+/Program	0-10V	Dimming/Programming input
3	Dim-	0V	DC Ground

CLKS DIMMING PROGRAMMING INTERFACE Vaux 12V / YE(黄色) Dim+ フ······ Program / PU(紫色) / GR(灰色) Dim-

3. Dimming Software Function Instruction

■ Adjustable Output Current(AOC)



Users can set the rated current between 10%*Max Current and 100%*Max Current

■ PWM

Input a PWM signal from the 2nd pin(Dim+/Program) of the dimming interface to change the output current. User can set "Positive Logic" or " Negative Logic" of the PWM signal. PWM duty circle: 1%~99%(it has both positive and negative logics), frequency: 500Hz~5kHz, 3V~10V is

■ Adjustable Startup Time(AST)



Set driver's "Start Fade up Time". It means how much time the driver costs to achieve the "Module Current " that the user set. The valid value is 0s, 1s, 2s, 5s, 10s, 20s, 40s.

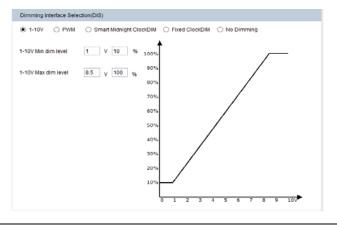
■ Fade Time(FT)

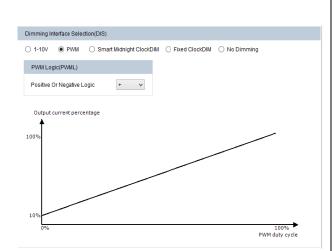


Set driver's "Fade up Time". This function is available in the Smart Midnight ClockDIM and Fixed ClockDIM mode; It means how much time the driver costs to achieve another dimming level from previous dimming level. The valid value is 0s, 1s, 2s, 5s, 10s, 20s, 40s.

■ 1-10V

Allow users to set the max and min output current and corresponding output voltage to clarify the 1-10V dimming curve. Input a 0~10V signal from 2nd pin of the dimming interface. Default: input \leqslant 1V, output current 10%; input \geqslant





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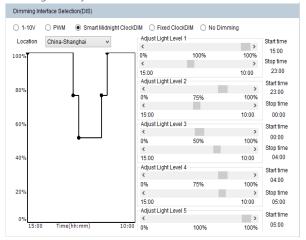
MU150HxxxAQ_CLKS Series

General - Outdoor

DWG NO.: MSSD-5453 A0

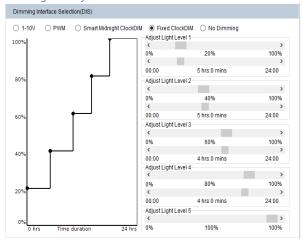
■ Instruction

■ Integrated Dynadimmer



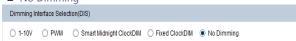
Integrated Dynadimmer allows dimming to predefined light levels based on the nightly operating time. With flexibility in setting time and light levels, the user can configure the driver for specific locations and application needs. Using Integrated Dynadimmer, it is possible to set up to 5 dim levels and time intervals. The driver does not have a real time clock. Instead it runs a virtual clock, determined by the length of nightly operating hours. After 3 ON-OFF cycles, the driver will calculate the virtual clock time. A valid ON-time is defined as a period during which the driver operates continuously for ≥4 hours to ≤24 hours. For example, if the requirement in summer is: 23:00-00:00: 75%, 00:00-04:00: 50%, 04:00-05:00: 75% (other time 100% or Off). The driver should be powered on for 7h, so it can calculate the virtual clock time as 22:00. Then we can set the dimming plan: 22:00~23:00: 100%, 23:00-00:00: 75%, 00:00-04:00: 50%. 04:00-05:00: 75%. From summer to winter, the valid ON-time changes day by day. The driver should be powered on for 17h in winter, and it also can calculate the virtual clock time as 17:00. Then the dimming plan is 17:00~23:00: 100%, 23:00-00:00: 75%, 00:00-04:00: 50%, 04:00-05:00: 75%, 05:00~10:00: 100%. From the above, if we set the dimming plan as shown in the picture, after repeating the driver ON-time for 3 consecutive days, the dimming plan takes effect from the 4th day onwards. Each day the driver powered on, it has a different start time according to the virtual clock

■ Integrated Dynadimmer Time Based



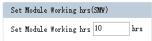
Allow users to separate 24hrs into 5 sections and corresponding output current.

■ No Dimming



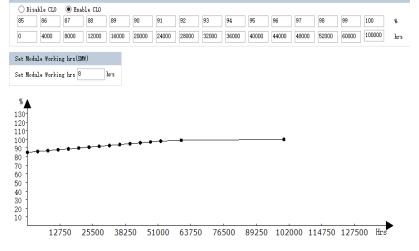
The driver will be in constant output mode.

■ Set MODULE Working hrs(SMW)



User can check how much time the driver works through this function.

■ Constant Light Output(CLO) Constant Light Output(CLO)



Traditional light sources suffer from depreciation in light output over time. This applies to LED light sources as well. The CLO feature enables LED solutions to deliver constant lumen output through the life of the light engine. Based on the type of LEDs used, heat sinking and driver current, it is possible to estimate the depreciation of light output for specific LEDs and this information can be entered into the driver. The driver counts the number of light source working hours and will increase output current based on this input to enable CLO.

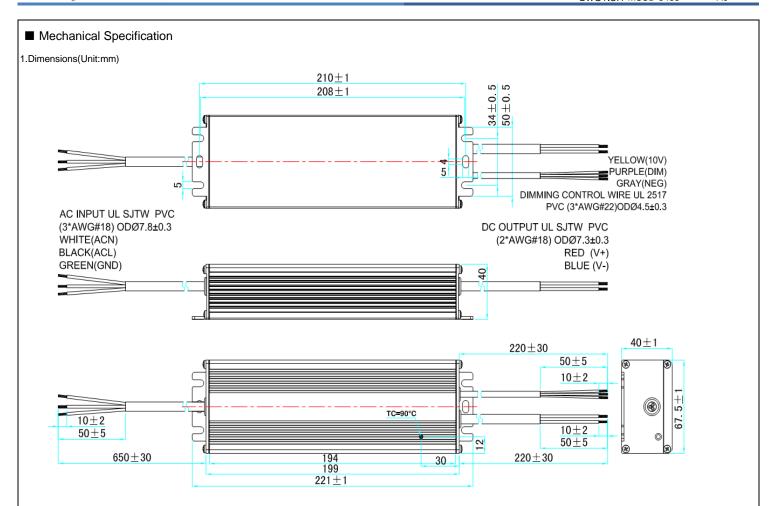
When the CLO feature is enabled, the driver nominal output current will be defined by the CLO percentage as shown by the equation below: Driver target nominal output current = CLO percentage * AOC. For example, in the CLO profile shown in Figure, between 52,000-60,000 working hours, the CLO percentage is set at 98%. Assuming the nominal AOC is set to 500mA, the driver output current with CLO enabled will be 0.98 x 500 = 600 mA.

The CLO percentage can be set to a value between 85%-100%, in increments of 1%. The LED module

subject to change without notice

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RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.

2.Terminal wire Type

Products		AC Input			DC output		Dimming control			
Floducis	Wire Type	Assignment	Description	Wire Type	Assignment	Description	Wire Type	Assignment	Description	
ENEC/CE apporval	RUBBER CCC+VDE	BROWN/L	2*1.0mm ² ОDФ 6.8±	RUBBER CCC+VDE	Brown/+	2*1.0mm ² ОDФ 6.8±	H05HRN-FODФ 6.3±	BK/WH or YE/10V	3*0.5mm2 or	
for class II	60245 IEC57 YZW/H05RN-F	BLUE/N	0.3mm	60245 IEC57 YZW/H05RN-F	Blue/-	0.3mm	0.2mm or UL2517 PVCODΦ 4.5±0.3mm	PU/DIM+	3*AWG#22	
	1217/1001411			1217/1001411			1 1000 1 1102010111111	GR/DIM-		
		BLACK/L			RED/+		UL2517 PV CODΦ 4.5± 0.3mm	YE/10V		
UL apporval	UL SJTW PVC	WHITE/N	3*AWG#18	UL SJTW PVC	BLUE/-	2*AWG#18		PU/DIM+	3*AWG#22	
		GREEN/GN						GR/NEG		
	PSE	BLACK/L	2	PSE	WHITE/+	2		YE/10V		
	HVCTF/VCTF/VCTFK PVC	WHITE/N	3*0.75mm ² ОDФ 6.8± 0.3mm	HVCTF/VCTF/VCTFK PVC	BLACK/-	2*0.75mm ² ОDФ 6.7± 0.3mm	UL2517 PVCODФ 4.5± 0.3mm	PU/DIM+	3*AWG#22	
	PVC	YE-GN/GND		PVC				GR/NEG		
	RUBBER CCC+VDE	BROWN/L	3*1.0mm ² ОДФ 7.3±	RUBBER CCC+VDE	Brown/+	2*1.0mm ² ОDФ 6.8±	H05HRN-FODΦ 6.3±	BK/WH or YE/10V	3*0.5mm2 or	
CCC/CB/CE apporval	60245 IEC57 YZW/H05RN-F	BLUE/N	0.3mm	60245 IEC57 YZW/H05RN-F	Blue/-	0.3mm	0.2mm or UL2517 PVCODΦ 4.5±0.3mm	PU/DIM+	3*AWG#22	
		YE-GN/GND		. 2,				GR/DIM-		
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