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LED

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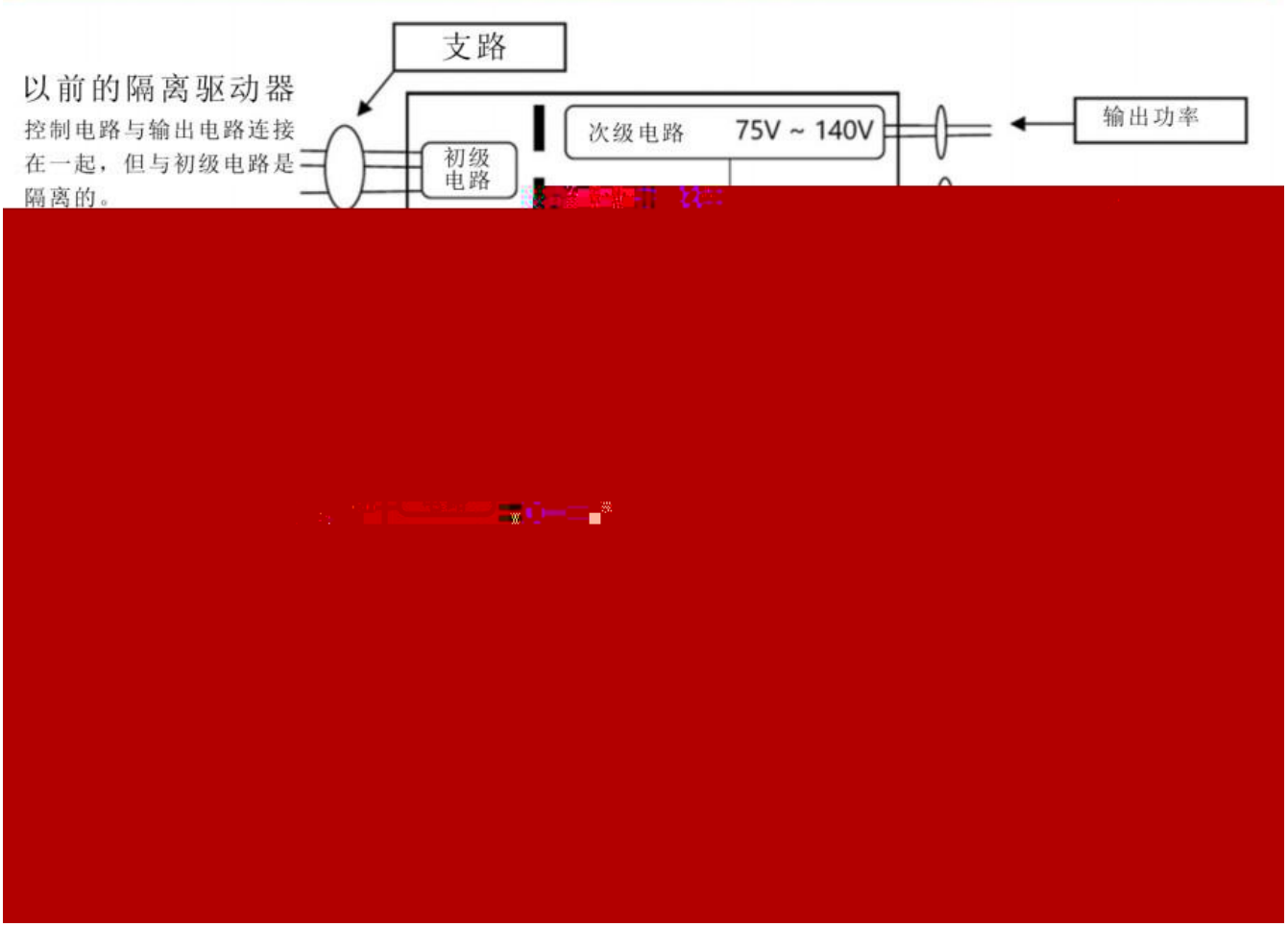
1


支路
以前的隔离驱动器
控制电路与输出电路连接在一起，但与初级电路是隔离的。
初级电路
次级电路
75V ~ 140V
输出功率

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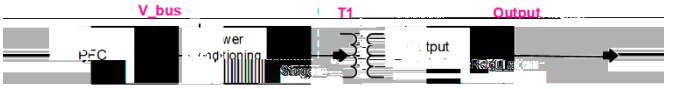
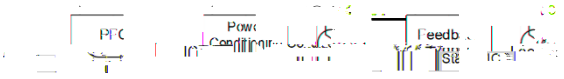
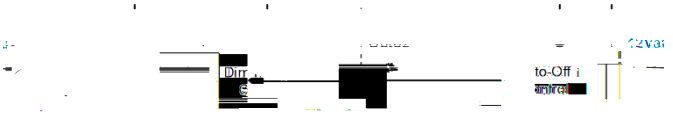
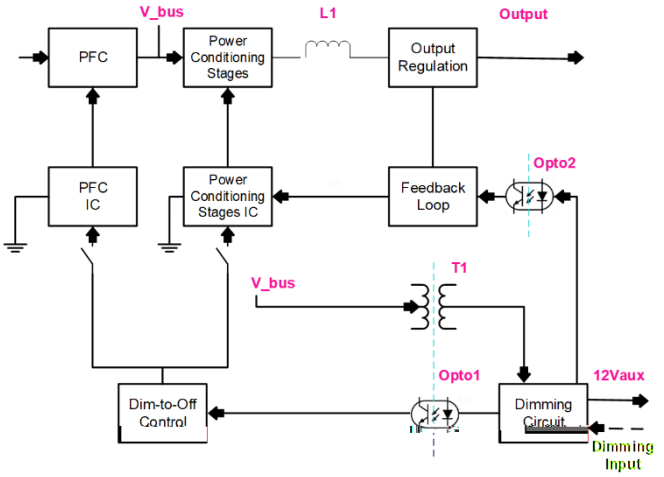

V_bus
T1
Output






V_bus
L1
Output
PFC
Power Conditioning Stages
Output Regulation
Opto2
PFC IC
Power Conditioning Stages IC
Feedback Loop
T1
V_bus
Opto1
12Vaux
Dim-to-Off Control
Dimming Circuit
Dimming Input

LED

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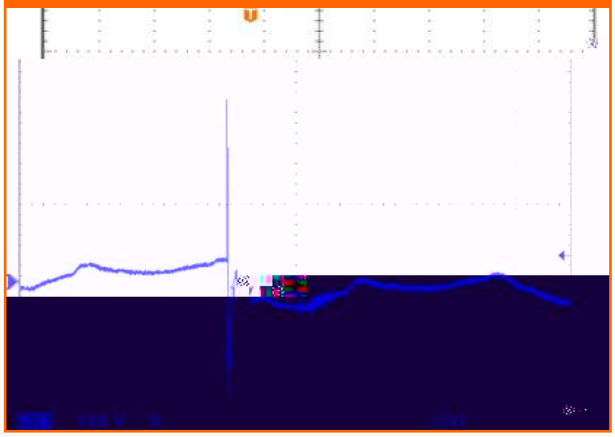
1.25-1.7A	1.7 A	200~544Vdc	680 W	ESM-680S170Mx
1.8-2.4A	2.1 A			

LED

10kV



LED

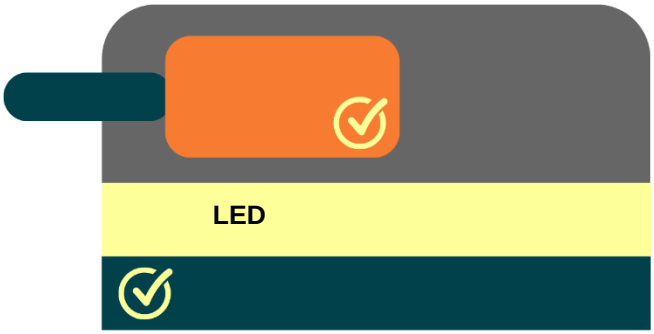
4:

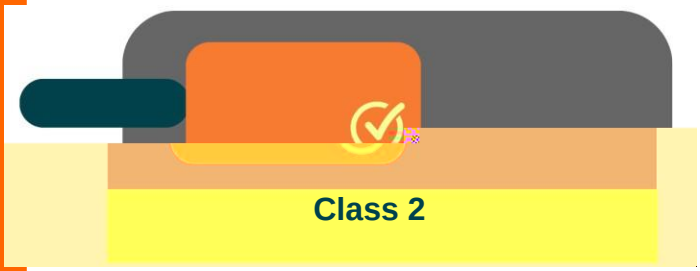
1†V Cî » ÔœÑV Sî I ½lÍ PM00912 0 612 792 re W* n BT /F44 11.04 Tf [0 0D45CC42584CP <31.8 n 6.56 r 0.31553

LED

THD, PF, EMI

6: UL		vs	
		LED	LED
UL Class 2	1		
	2		
UL non-Class 2 < 60V	3		
	4		
UL non-Class 2 >60V	5		
	6		


LED


Class 2


交流电源
非隔离
LED 驱动器
LED接地

表7: 基于驱动器输入电压与最大输出电压的LED灯板间距要求

				LED			LED
				(mm)	(mm)	(mm)	(mm)
		60Vdc	277Vac Max	0.50	1.60	1.50	3.00
			480Vac Max	0.50	1.60	3.00	6.10
		170Vdc	277Vac Max	1.50	3.00	1.50	3.00
			480Vac Max	1.50	3.00	3.00	6.10
		305Vdc	277Vac Max	2.25	4.50	2.25	4.50
			480Vac Max	2.25	4.50	3.00	6.10
		600Vdc	277Vac Max	3.00	6.10	3.00	6.10
			480Vac Max	3.00	6.10	3.00	6.10
		60Vdc	277Vac Max	3.00	3.00	3.90	3.90
			480Vac Max	3.00	3.00	5.60	5.60
		170Vdc	277Vac Max	3.90	3.90	3.90	3.90
			480Vac Max	3.90	3.90	5.60	5.60
		305Vdc	277Vac Max	4.70	4.70	4.70	4.70
			480Vac Max	4.70	4.70	5.60	5.60
		600Vdc					

LED

Non-isolated LED Driv

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8: UL			
		LED	LED
(1) UL Class 2	1 2		
(2) UL non-Class 2 < 60V	3 4		
(3) UL non-Class 2 >60V	5 6		

1) 1 2

2) 3 4

3) 5 6

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