Specification for LED Driver Series

AB-D65200-V12-Q AB-D65200-V24-Q



AB-D67200-V12-Q AB-D67200-V24-Q

Features:

- Universal AC input / Full range (Max 305VAC)
- Built-in active PFC function
- P65/IP67, Metal Case, Suitable for dry, humid, and rainy environments
- Protections: Short circuit / Over Voltage / Over Temperature
- Adopt metal shell and internal glue filling, which can be used in dangerous situations
- Built-in lightning protection device can meet the requirements of DM 4KV / CM 6kV
- Compliance with worldwide safety regulations for lighting
- 5 years warranty

Description:

AB-D6x200-Vxx-Q series is an outdoor waterproof power supply featuring the dual mode constant voltage and constant current output. Its input voltage range is 100-305Vac, with a high efficiency of up to 94%, fanless design, working in the temperature range of - 40 ° C to + 60 ° C under free air convection. It has an ultra-high power factor, ultra-low total harmonic distortion, and low standby power consumption, with all-around protection functions such as lightning protection and waterproof function, which not only greatly improves the product's reliability, but also ensures the product's life cycle. This series is designed for LED lighting such as road lighting, floodlights, stage lighting, advertising lights, etc., suitable for almost all kinds of applications where LED lamps can be installed. The product is designed completely in accordance with the world's lighting equipment safety regulations to ensure the safety of both the user and the luminaire system during installation.

Model

Model	Rated Output Voltage	Rated Output Current	Min. Output Voltage CC Mode	Maximum Output Power	Current Tolerance	Total Harmonic Distortion (Typ.)	Power Factor (Typ.)	Efficiency (Typ.)
AB-	12V	8-16A	7.2V	192W	±5%	4%	0.98	93%
D65200-								
V12-Q								
AB-	24V	4.2-	14.4V	200W	±5%	4%	0.98	94%
D67200-		8.3A						
V24-Q								

Model	Function	IP Grade
AB-D65200-Vxx-Q	Output current and voltage adjustable	IP65
AB-D67200-Vxx-Q	Output current and voltage fixed	IP67

Remark:

All parameters NOT specially mentioned are measured at 230VAC input, full load, and 25 °C of ambient temperature.

Naming System:

AB-D65200-V12-Q

65: IP65 200: 200Watts V12: 12 Volts Q: No Dimming

AB-D67200-V12-Q 67: IP67 200: 200 Watts

200: 200 Watts V12: 12 Volts Q: No Dimming

AB-D65200-V24-Q

65: IP65 200: 200 Watts V24: 24 Volts Q: No Dimming

AB-D67200-V24-Q

67: IP67 200: 200 Watts V24: 24 Volts Q: No Dimming

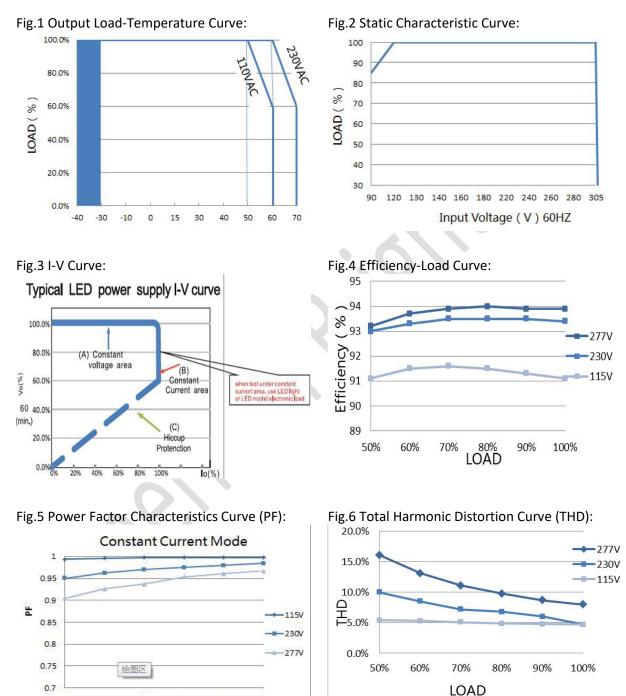
Input

Parameter	Minimum Value	Typical Value	Maximum Value	Note
Rated Input Voltage	100Vac		277Vac	The derating curve is shown in the
Input Voltage	90Vac		305Vac	figure
Input Frequency	47Hz		63Hz	
Maximum Input Current			2A	110Vac, Full Load
Maximum Input Current			1A	230Vac, Full Load
Input Inrush Current			65A	230Vac/50Hz, Cold Start
Power Factor	0.97	0.98		230Vac, Full Load
Total Harmonic Input		4%	5%	230Vac, Full Load
Leakage Current			0.7mA	230Vac/50Hz, Full Load
Stand-By Power		0.35W		230Vac/50Hz, No Load
Consumption		0.5570	0.5W	

Output

Parameter	AB-D6x200-V12-Q	AB-D6x200-V24-Q	Note
Output Voltage Adjusted Range	10.5-13.5VDC	22-26VDC	Maximum Output power should comply to: Po = Vo*Io=200W
The Minimum Output Voltage (CC Mode)	7.2V	14.4V	
Rated Output Current	16A	8.3A	
Output Current Adjusted Range	8-16A	4.2-8.3A	
Rated Output Power	192W	200W	
Rated Output Efficiency	93%	94%	230Vac
Output Current Tolerance	±!		
Output Voltage Ripple (PK-PK)	±ź	2%	Full Load (Test under
Output Current Ripple (PK-PK)	±5%		20M bandwidth)
Rise Time	100	Oms	230Vac
Startup Time	300ms		230Vac
Line Regulation	±:	Full Load	
Load Regulation	±:	1%	

Characteristic Curve



50%

60%

70%

80%

90%

100%

Protection

Ра	rameter	Conditions	Note	
	Overload	1.1-1.6 times of rated load	Auto-recovery after overload	
			removed	
Protection	Short Circuit	Short circuit power ≤ 0.5W	Hiccup mode, auto-recovery	
			after short circuit	
			removed	
	Over Voltage	1.5 times of rated output	Auto-recovery after	
		voltage	overvoltage removed	
	Over Temperature	110°C	Auto-recovery after over	
			temperature removed	

Environment Requirement

Parameter	Minimum	Typical	Maximum	Note
Working	-40°C	25°C	+60°C	See Fig.2
Temperature				
Storage	-40°C	25°C	+85°C	
Temperature				
Working Humidity	10%RH		90%RH	
Storage Humidity	5%RH		95%RH	
IP Grade			IP67	
Cooling Mode		Natural Cooling		



Safety & EMC Standard

Certificate		Safety Standards	Certification	Note
	JL/CUL	UL8750		
	TUV	EN61347-1:2015		
		EN 61347-2-13:2014+A1		
		EN62493:2015		
	SAA	AS/NZS 61347.2.13		
	CCC	GB 19510.14-2009		
	CE	EN 61347-2-13:2014 +A1		
		EN61347-1:2015		
Sa	fety Test	Technical Indexes	Note	
	Input-Output	3200Vac/5mA	Reinforced insulation, no	
		Max/60s	breakdown, no flashover	
	Primary to	1600Vac/5mA	Basic insulation, no breakdown, no	
Dielectric	Safety (Ground	Max/60s	flash	over
Strength	AC To FG)			
	Secondary to	1000Vac/5mA	Functional insulation, no	
	Safety (Ground	Max/60s	breakdown, no flashover	
	DC To FG)			
Insulation	Input-Output	≥10MΩ	Test voltage: 500Vdc	
Resistance				
Ground Resistance		<u>≤</u> 0.1Ω	25A/1min	
Leakage Current		≤0.75mA	277Vac	
EMC Test		Standard	Criterion	
Conduction CE		EN55015		
Radiation RE		EN55015		
На	armonics	EN IEC 61000-3-2	Clas	ss C

Others

Parameter	Condition	Note
Lifetime	55,000 Hours	230Vac, Full Load, TC: 75°C
MTBF	200,000 Hours	230Vac, Full Load, Ta: 25°C
		(MIL-HDBK-217F)
TC	90°C	
Warranty	5 Years	TC: 75°C
Weight	850g	
Dimensions	220.6*62.5*38mm	L x W x H

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Mechanical Specification (Unit: mm)

