

Customer's Part Number: _____

MOONS' Part Number: _____

Model: _____

P/N: _____

CUSTOMER'S APPROVAL STAMP

Please sign back after your approval. The specifications will come into force when we receive purchase order.

DWG	CHK	STANDARD	APPD.

[illegible]

■ Features

- Input voltage: 108-305VAC
- Built-in active PFC function: 0.5Typ.
- Built-in Lightning protection.
- High efficiency: 50% Typ.
- Meet UL damp&dry.
- Constant Current / 0-10V Dimming
- Protection: OVP, SCP, OTP
- UL Type HL


■ Specification

Output	Rated Current	416-	830-	1250-300mA	1400-		
	Operating Voltage Range (min. ~ max.)	12-50V	12-50V	12-50V	12-50V		
	Rated Power (Max @W)	5W	10W	15W	20W		
	Charge current(mA)	420mA					
	Start Time (Max. ms @ VAC)	1000ms / @ 120VAC @ rated load					
Input	Frequency Range	50 / 60 Hz					
	Input Voltage Range	120-277 VAC					
	Power Factor (Typ.120VAC)	0.5 at full load					
	Efficiency (typ.@120VAC)charging	60.0%					
	Input AC Current (Max. @ VAC)	0.15A @ 120VAC at full load					
	Inrush Current (Max.)	277VAC @ 25 DEG C: <28Amp peak					
	Leakage Current (Max. @ VAC)	1.5mA / 120VAC					
General Specifications		Data	Notes				
	MTBF	>50,000hrs	calculated to MIL-HDBK217F @ 25 DEG C. rated				
	Max. Case Temp.	55°C					
	Life Rating (@ Load %, @ 55°C test)	50,000 hours	Measured at 120/277VAC, 100% load, 55°C Tc.				
	Warranty	5-years Limited Warrant					
Protection	Type						
	Over Power	the driver always works within a safe working area power curve					
	Short Circuit	current limit protection					
	Others	Over Temperature Protection, No load protection					
Environmental	Operating Temperature (min. ~ max.)	-20 ~ +60°C					
	Storage Temperature (min. ~ max.)	-40~ +80°C					
	Operating Humidity	20 ~ 95% RH					
	Storage Humidity	10 ~ 95% RH					
	Temperature Coefficient (%/C)	±0.03% / °C (0~50°C)					
	Application	For Dry and Damp location					
Safety & EMC	Safety Standards	UL, cUL, UL8750 Class 2;UL1310;CSA C22.2 No. 250.13-12					
	EMI/EMC Standards	FCC Part 15 Class B, Compliance to EN 61547/1995+A1/2000					
Physical Parameters		L	W	H	M		
	Dimensions (mm)	140mm	41.8mm	25mm			
	Net Weight (lbs.)	1 lbs.					
	Input Leads (AWG, Length)	Line	Neutral		Power(Black/White)		
		Black 18AWG,300mm 105C/600v Multi-Core	White 18AWG,300mm 105C/600v Multi-Core		Black/White18AWG,400mm 105C/600v		
	Output Leads (Color, AWG, Length)	Red/White, Red, Yellow	Battery(Red, Black)		Touch Button(Purple, Green)		
		18AWG,500mm 105C/600v Multi-Core	22AWG, 50mm 105C/300v Multi-Core		22AWG, 110mm 105C/600v Multi-		
Packaging	QTY/CTN	Dimensions		Weight			
	TBD	TBD		TBD			

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 277VAC input , rated load and 25°C of ambient

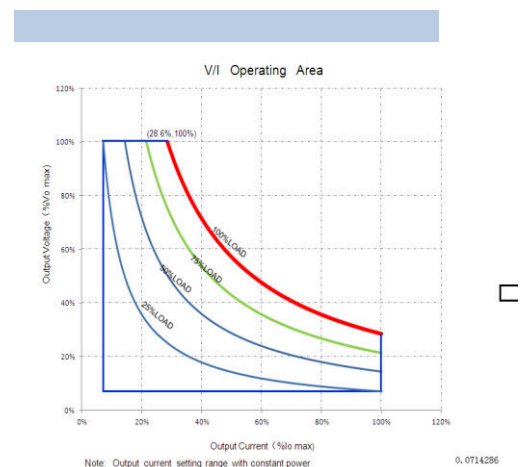
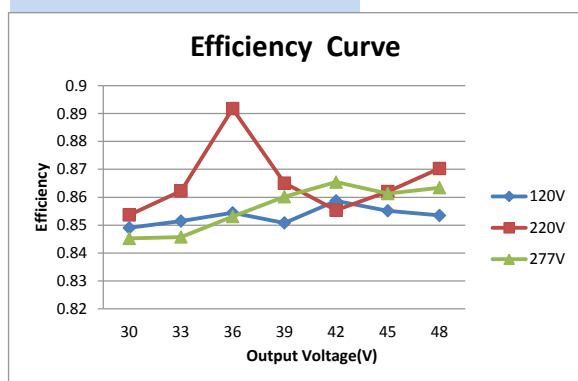
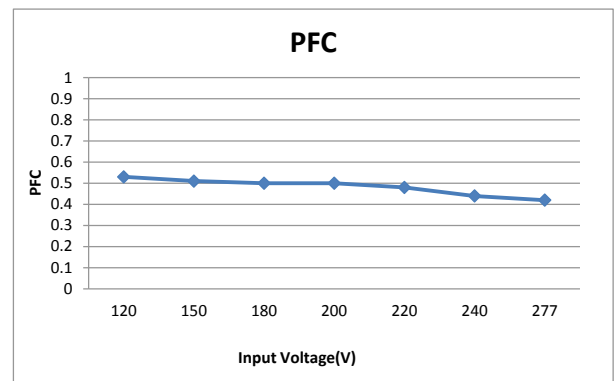
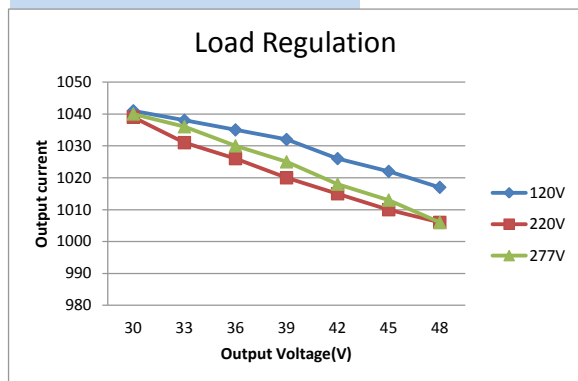
subject to change without notice

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SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

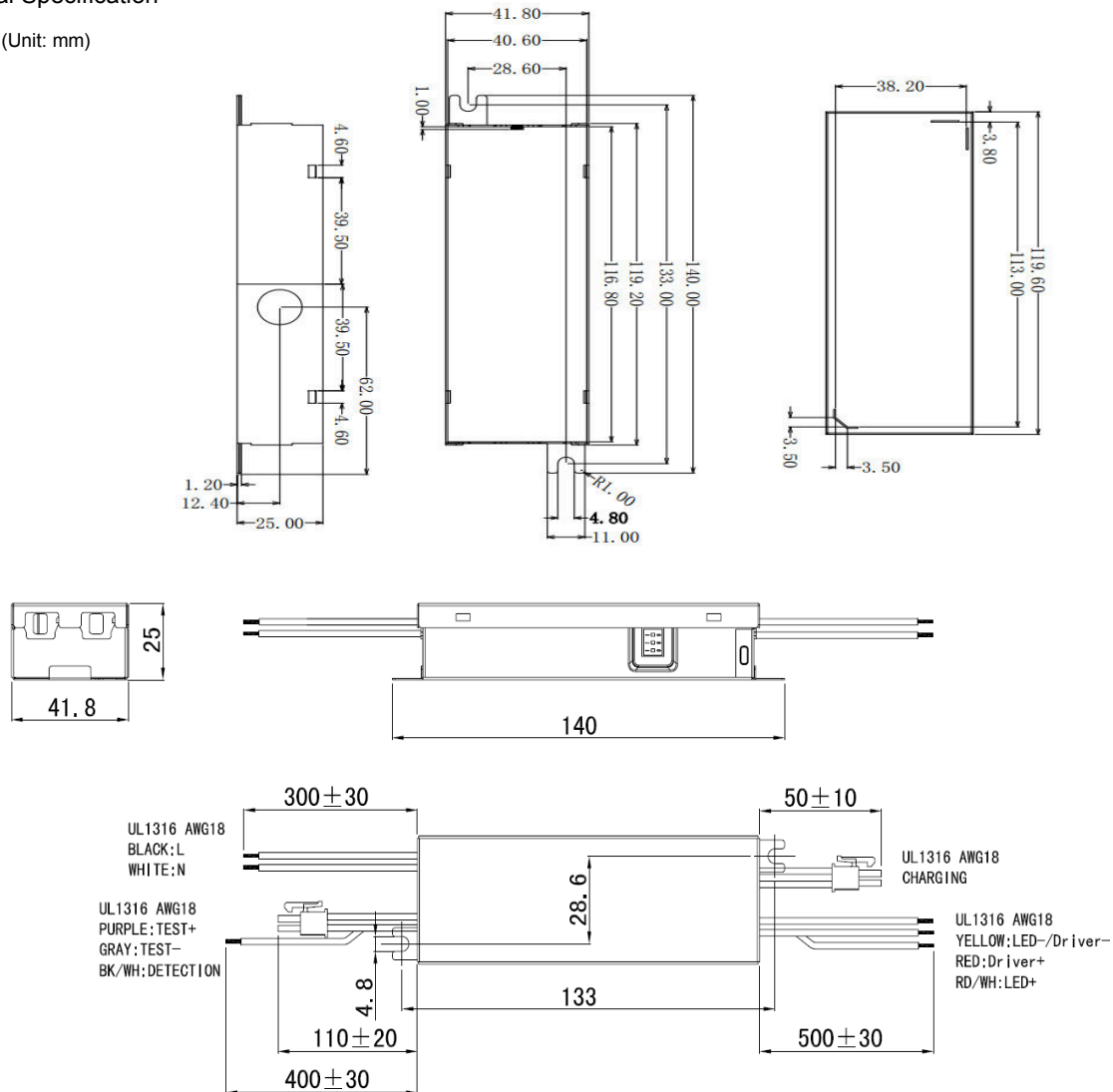
Tel: +86 (0)21 52634688 Website: www.moons.com.cn



Life Time VS. Tambient(Ref.)

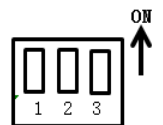
■ Mechanical Specification

Dimensions (Unit: mm)



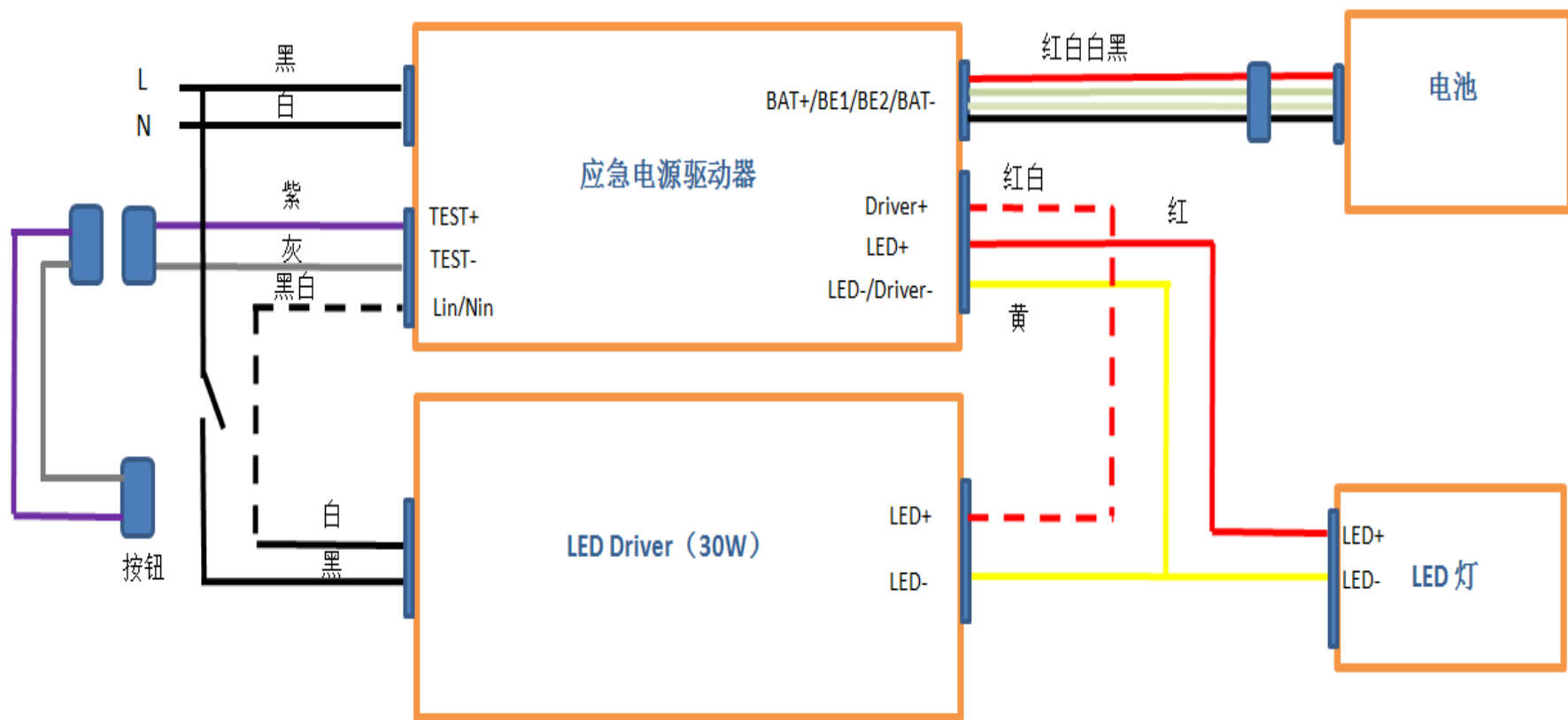
Battery Charging current(mA)	Output current(mA)	Pout(W)
420	416-100mA	5W
420	830-200mA	10W
420	1250-300mA	15W
420	1400-400mA	20W

1	2	3	Pout
—	—	—	5W
ON	—	—	10W
—	ON	—	15W
ON	ON	—	20W



RoHS Compliance:

Our products comply with the European Directive of LVD (2014/35/EU), WEEE (2012/19/EU) and ROHS (2011/65/EU and (EU) 2015/863), calling for the elimination of lead and other hazardous substances from electronic products.



118 mm

38 mm

MOONS'

LED Driver
Energy Saving Solutions

INPUT VOLTAGE :120-277 Vac 50/60Hz

INPUT CURRENT :50mA Max

OUTPUT VOLTAGE :12-50Vdc

OUTPUT CURRENT :100-1400mA 20W Max

OUTPUT TYPE:CONSTANT CURRENT

AMBIENT TEMP:0°C-50°C

[Http://www.moons.com.cn](http://www.moons.com.cn)

[Http://www.moonsindustries.com](http://www.moonsindustries.com)

SHANGHAI MOONS' AUTOMATION CONTROL CO.,LTD.
MADE IN CHINA



5W



10W



15W



20W

EMERGENCY LED DRIVER MODEL : MU020E140AQ

