



■ **Features**

- Charger for lithium batteries (Li-ion, LiFePO4 and lithium manganese) and Lead-Acid batteries
- Built- in 4 stage charging curve (For Lithium batteries) and 3 stage charging curve (For Lead-Acid batteries)
- Universal AC input / Full range (90-264V~)
- Built- in active PFC function
- Protection: Short circuit / Over voltage / Over temperature / Battery over voltage / Battery reverse polarity protection
- 2 years warranty

■ **Applications**

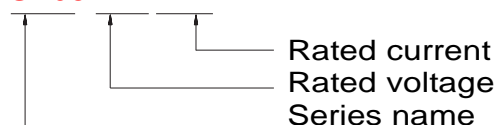
- Radio system backup solution
- Electric scooter charger
- Surveillance system
- Electric motorcycle \ Electric sweeper

■ **Description**

G168 is a single output 168W AC/DC desktop type charger with 4 and 3 stage charging curve, suitable for lithium battery (lithium ion, lithium iron phosphate, lithium manganese) and lead-acid battery (colloid battery, liquid battery, AGM battery). When charging, the LED can indicate the battery capacity when charging.

■ **Mode Encoding**

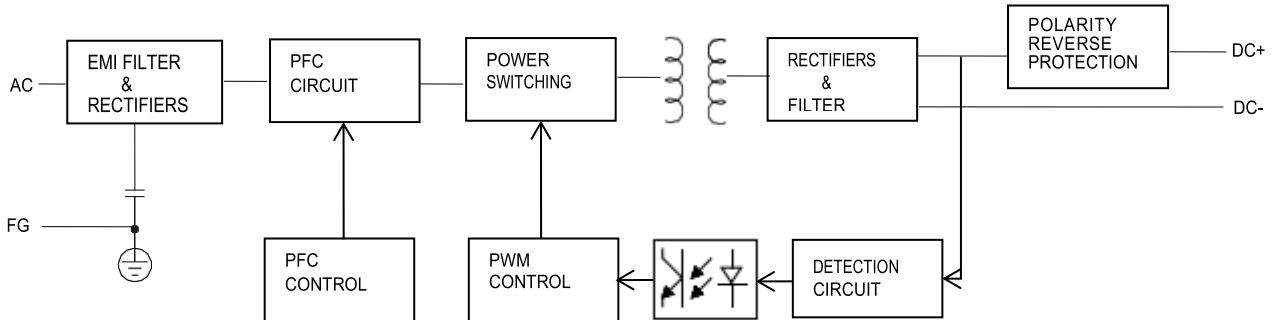
G168-XXXXYY



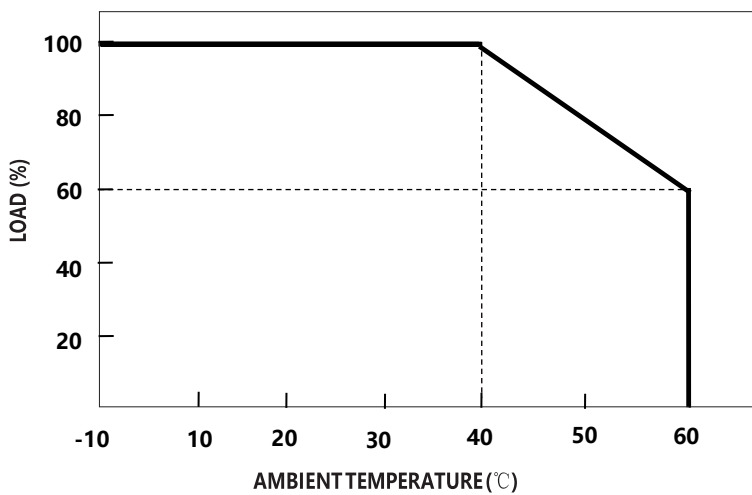
G168-168100 (16.8V 10.0A) Power Adapter

Item	Specification	Remark
1.Input		
Rating input voltage	100~240Vac 50/60Hz	
Input voltage range	90~264Vac	
Rating input current	2.2Arms	Input:100VAC Output:Full load
Power factor	PF>0.98	Input:115VAC Output:Full load
	PF>0.94	Input:230VAC Output:Full load
Efficiency	93.0%	Input:115VAC Output:Full load
	95.0%	Input:230VAC Output:Full load
Standby power	160mW	Input:115VAC&230VAC
Inrush current	30A/115VAC 50A/230VAC	Cold-start and 25°C,Full-load
Leakage current	<500uA	240VAC
2.Output		
Output voltage	16.8V	
Output current range	0-10A	
Rated maximum power	168W	
Voltage tolerance	±2%	
Voltage regulation	±1%	
Load regulation	±5%	
Start-up time	300ms	Input:115VAC Output:Full load
Rise time	20ms	Input:115VAC Output:Full load
Hold time	20ms	Input:115VAC Output:Full load
Ripple voltage	130mV	20MHz , AC coupling mode, connected in parallel with 0.1uf ceramic capacitor and 47uf electrolytic capacitor
3.Protect		
OLP	110~160% , Lock mode	
OVP	Lock mode	
SCP	Lock mode	
OTP	Lock mode	
4.Environment		
Operate temperature	-10 ~ +40°C	
Operate humidity	< +90%	Relative humidity
Storage temperature	-40 ~ +70°C	
Storage humidity	0 ~ +95%	Relative humidity
Cooling	Natural	
Vibration resistance	5MM/50HZ/600S	Non-operating condition
Impact resistance	1 meter drop test 3 times	Non-operating condition
5.Mechanical		
Weight	680g	
Size	171X71X40MM	Casing only
Connector	Refer to order	
6.Safety		
Max. temperature rise	< 40°C on casing	
Safety approval	CE/GS/PSE/SAA/FCC/CCC/cTUVus/CB/BS	
MTBF	30000H	
ESD	8.0KV	
Hi-Pot Insulation	i/p to o/p: 3000V (1 min)	

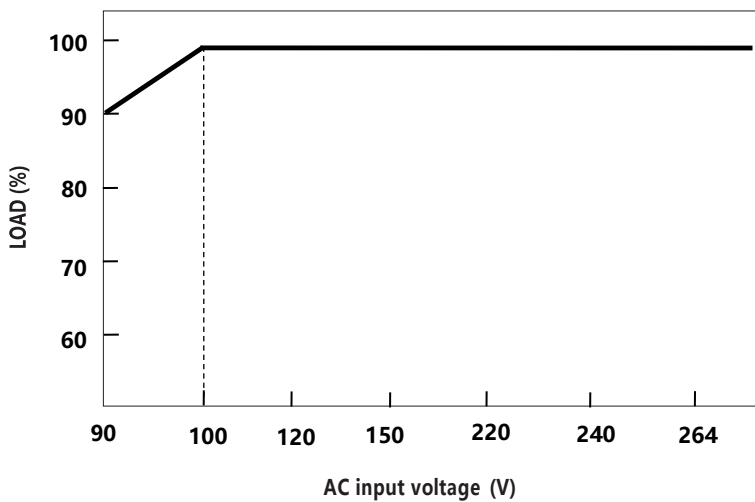
■ Block Diagram



■ Derating Curve



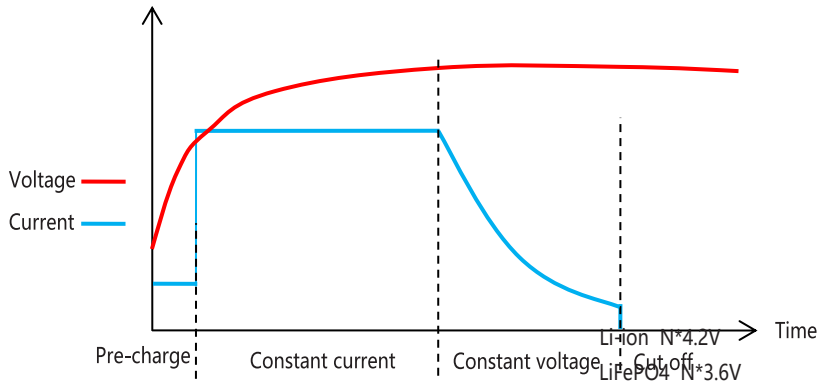
■ static Characteristics



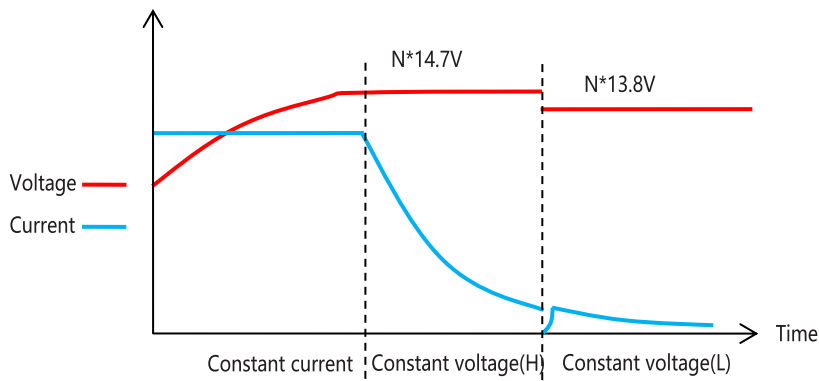
Function Manual

1. Charging Curve

◎ 4 stage charging curve(Li-ion battery charger)



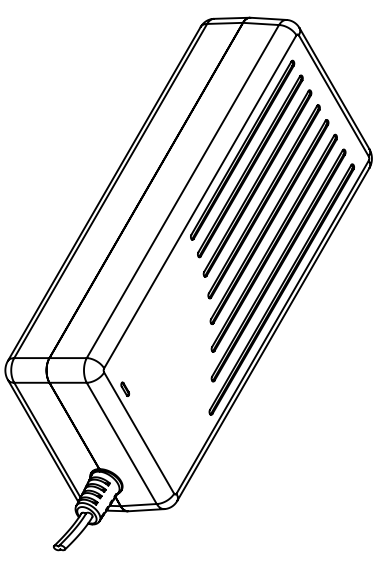
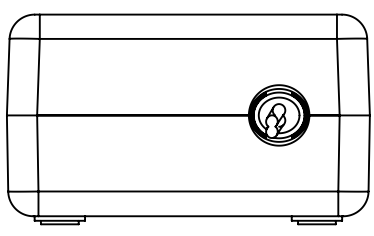
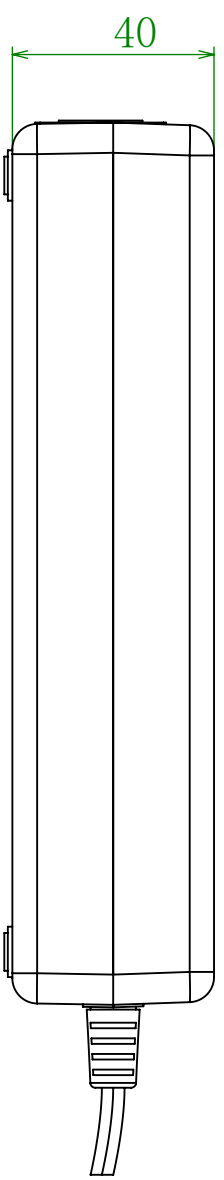
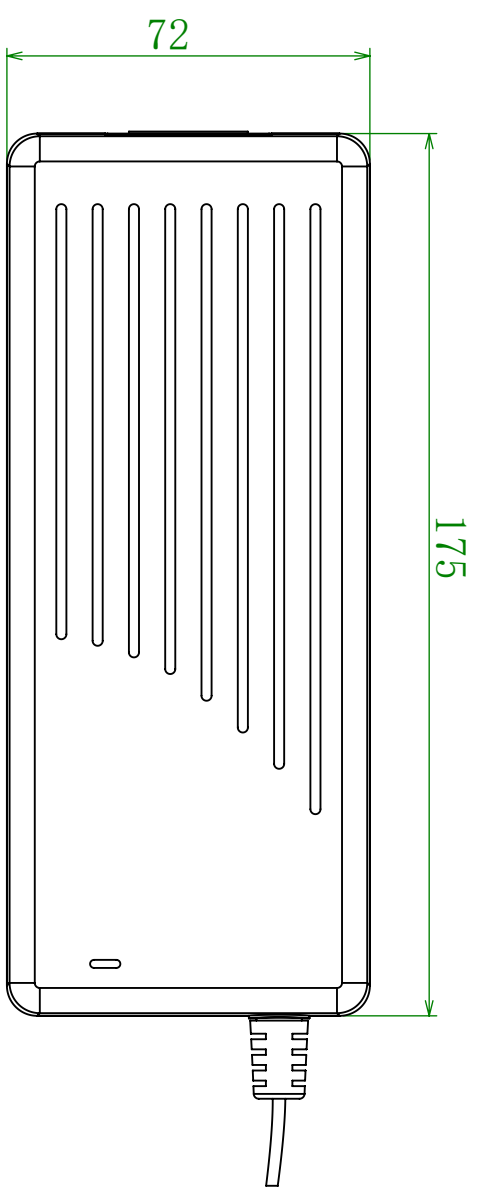
◎ 3 stage charging curve(Lead-Acid battery charger)



2. LCD display

Green	No battery	25%	50%	75%	100%	Full
	0.45Hz flicker	0.83Hz flicker	1.25Hz flicker	1.66Hz flicker	2.5Hz flicker	Fixed lighting

CUSTOMER REV	REV	ZONE	DESCRIPTION	CHA BY/DATE	APP BY/DATE



Shenzhen Green Digital Power-Tech CO., LTD

TITLE: _____ MATL: _____

MODEL: **G168W-XXXXXX** WEIGHT: _____

DES BY: _____ UNIT: mm TEXTURE _____

CHECK BY: _____ COLOR: _____ Paper Size: A4 SCALE: **Fit**

APP BY: _____ FINISH/TREATMENT: _____ DATE: _____

PART NO.: _____
CUSTOMER P/N: _____

