











■ Features

- •Charger for lithium batteries (Li-ion,LiFePO4and 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
- 1 years warranty

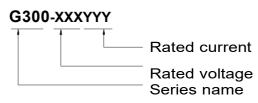
Applications

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

Description

G300 is a single output 300W 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

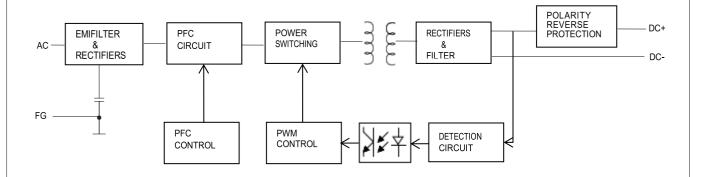




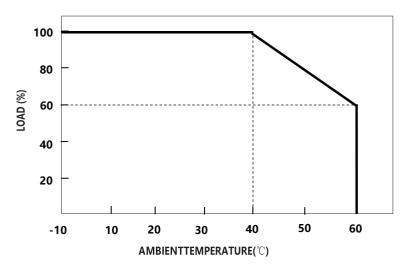
SPECIFICATION(Li-ion battery charger)

	MODEL	G300-126180	G300-168170	G300-294100	G300-420070	G300-546050
	Charge voltage	12.6V±1%	16.8V±1%	29.4V±1%	42.0V±1%	54.6V±1%
ОИТРИТ	Charge voltage range	7.5-12.6V	10.0-16.8V	17.5-29.4V	25-42.0V	32.5-54.6V
	Charge current	18.0A±7%	17.0A±7%	10.0A±7%	7.0A±7%	5.0A±7%
		3.6A±7%	3.4A±7%	2.0A±7%	1.4A±7%	1.0A±7%
	Charge-end current	≤1.8A ±10%	≤1.7A ±10%	≤1.0A ±10%	≤0.7A ±10%	≤0.5A ±10%
	Rated power	226.8W	285.6W	294W	294W	273W
	Recommended battery capacity		40 - 150Ah	20 - 100Ah	15 - 80Ah	15 - 60Ah
	Note.3					
	Leakage current from battery (Typ.)	≤1mA				
CHARGING LED	Red LED flashing	2Hz Error				
	Green LED flashing	Idle				
	Red LED on	Charging				
	Green LED on	Full				
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz				
	Input voltage range Note.4	90 - 264VAC				
	Power factor (Typ.)	PF>0. 98@Full load,Input:115VAC ; PF>0. 94 @Full load,Input:230VAC				
	Input current (Typ.)	4.5A@100VAC				
	Inrush current (Typ.)	Cold start 75A @230V	AC			
	Standby input power	< 1W 94%	95%	050/	050/	050/
	Efficiency (Typ.) Short circuit Note.5			95%	95%	95%
PROTECTION		Protection type : Shut down output				
	Over voltage	Protection type: Shut down output				
	Reverse polarity	Protection type : Shut down output				
	Over temperature	-10 - +40°C (Refer to " Derating Curve")				
ENVIRONMENT	Working temperature Working humidity	0 - 90% RH				
	Storage temperature ,humidity	-40 - +70℃, 0- 95% RH				
	Cooling	Natural convection				
	Vibration resistance					
		10-50Hz,2G10min.1cycle,60min.eachalongX,Y,Zaxes < 40°C on casing				
SAFETY& EMC(Note.6)	Max. temperature rise Hi-Pot Insulation	i/p to o/p: 3000V (1 min)				
	Safety approval	CB/CE/FCC/CCC/cTUVus				
	Salety approval	Parameter	Standard			Test Level I Note
	EMC Emission	Conducted	EN55032 FCC PART15			Class B
		Radiated	EN55032 FCC PART15			Class B
		Harmonic Current	=			
		Voltage Flicker EN61000-3-3				
	EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11				
OTHERS	MTBF	30000H				
	Dimension	220*105*43mm (L*W*H)				
	Weight	1300g				
NOTE	 Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 					
	3. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.					
	4. Derating may be needed under low input voltages. Please check the derating curve for more details.					
	5. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.					
	6. The battery charger is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.					

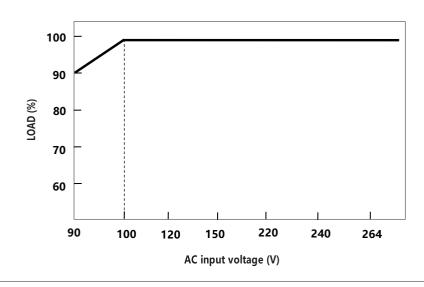
■ Block Diagram



■ Derating Curve

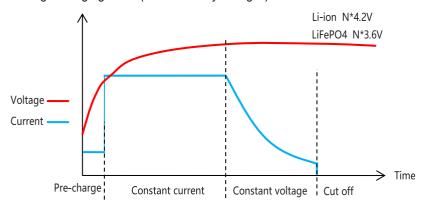


■ Static Characteristics



■ Charging Curve

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



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

