



■ Features

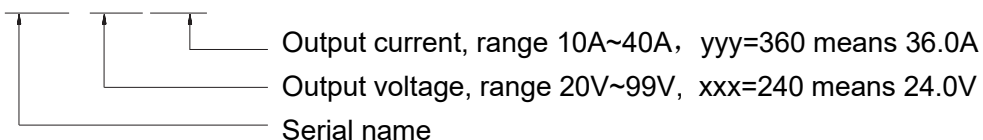
- Ultra-slim design, easy to mount and install.
- Max output 1200W, high efficiency, low heat generation.
- Wide range AC input: 90-264Vac.
- Built-in active PFC (Power Factor Correction) function.
- Reserved interfaces for RS485 and CAN communication.
- Multiple protection functions: Shorted / OVP / OLP/ OTP.

■ Applications

- EV, AGV, Robots and Drones
- Industrial devices
- Information devices
- Home appliances

■ Model Part Number :

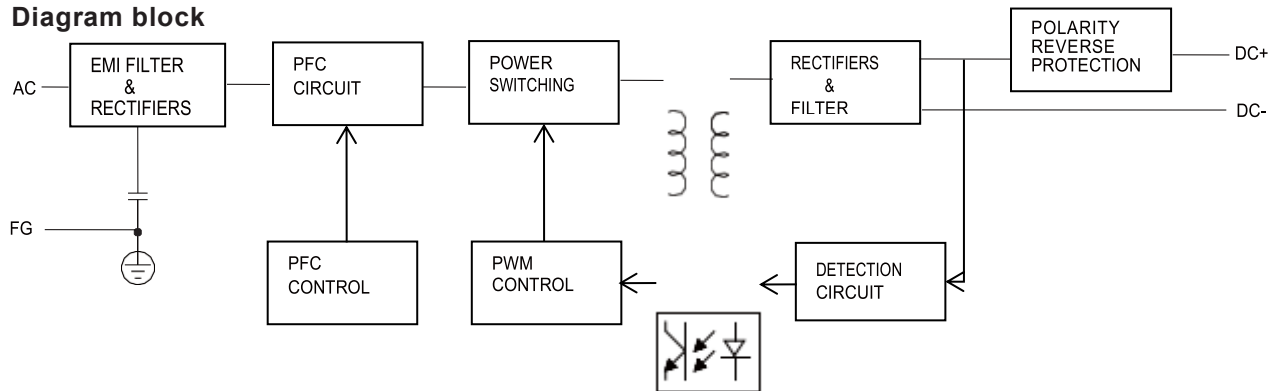
G1300-XXXXYY



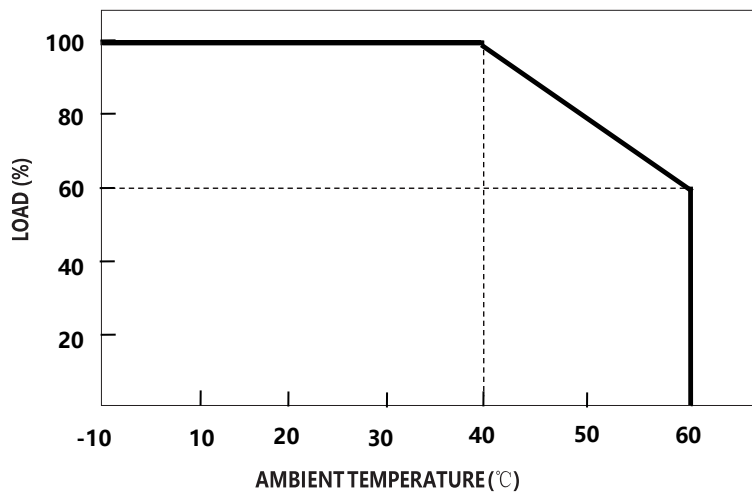
SPECIFICATION (Only the adopted models are listed in table, for other output please reach our sales)

Model part number (P/N)		G1300-240400	G1300-360330	G1300-420300	G1300-480250	G1300-600200
OUTPUT	Rating output voltage	24V±5%	36V±5%	42V±5%	48V±5%	60V±5%
	Output current range	0-40A	0-33A	0-30A	0-25A	0-20A
	Max. power @AC120V~240V	1000W	1200W	1200W	1200W	1200W
	Line regulation	1%				
	Load regulation	3%				
	Soft start time	2000mS (Input:115VAC Output:Full load)				
	Rise-up time	30mS (Input:115VAC Output:Full load)				
	Hold-on time	15mS (Input:115VAC Output:Full load)				
	Voltage ripple (RMS)	<output voltage*1% (20MHz , AC coupling mode, connected in parallel with 0.1uf ceramic capacitor and 47uf electrolytic capacitor)				
	LED display	Bi-color, Green means normal running, RED means heavy load, RED FLASHING MEANS ERRORS				
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz				
	Input voltage range	Note.4				
	Power factor (Typ.)	PF>0.96 @Full load				
	Input current (Typ.)	14A@100VAC				
	Inrush current (Typ.)	Cold start 75A @230VAC				
	Standby input power	< 4W				
	Efficiency (Typ.)	93%	94%	94%	94%	94%
PROTECTION	Short circuit Note.5	Protection type : Shut down output				
	Over voltage	>4.35V*N				
	Reverse polarity	By internal relay				
	Over temperature	Shut down output, recovers automatically after temperature goes down				
ENVIRONMENT	Working temperature	-10 - +40°C (Refer to " Derating Curve")				
	Working humidity	0 - 90% RH				
	Storage temperature, humidity	-40 - +70°C, 0 - 95% RH				
	Cooling	Fan convection				
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC (Note.6)	Max. temperature rise	< 40°C				
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)				
	Safety standards	IEC62368				
	EMC emission	Parameter	标准			等级
		Conducted	EN55032 FCC PART15			Class B
		Radiated	EN55032 FCC PART15			Class B
		Harmonic Current	EN61000-3-2			
		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				
	Size	280*145*47.7mm(L*W*H)				
	Weight	1800g				
Notes	1. Modification for charger specification may be required for different battery specification. Please contact battery vendor or Green digital power for details. 2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 3. This is general suggested. Please consult your battery manufacturer about maximum charging current limitation. 4. Derating is needed at AC100~120V input or above 40°C ambient. 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. For guidance on how to perform these EMC tests, please refer to "EM I testing of component power supplies."					

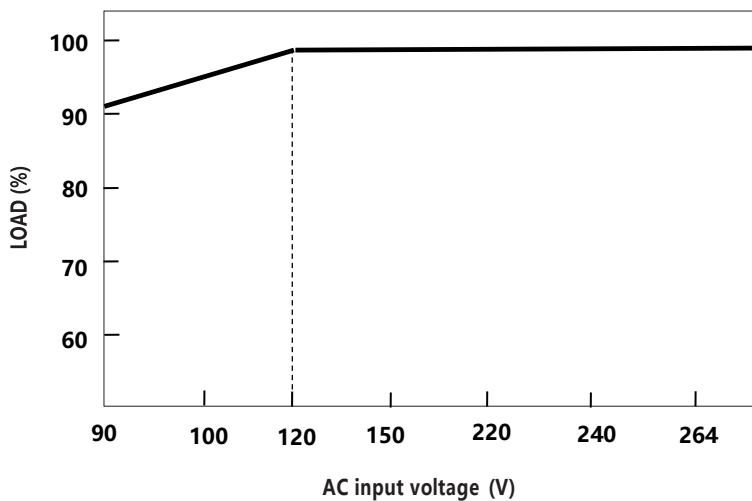
■ Diagram block



■ Temperature derating curve



■ AC input derating curve



■ Mechanical specification

