■ 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

WP800-XXXYYY

- Output current, range 5A~40A，yyy=360 means 36.0A
- Output voltage,10V~88V，xxx=240 means 24.0V
- Model Serial name

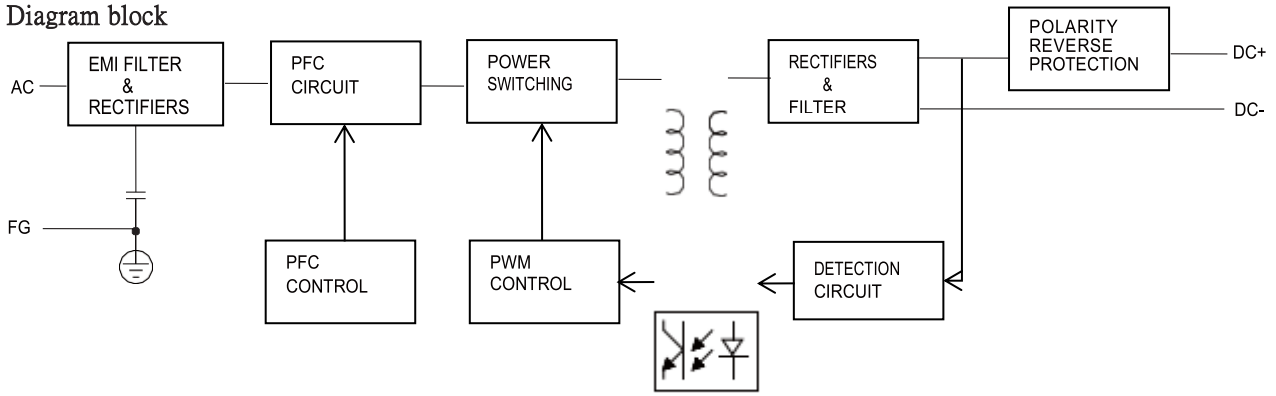
SPECIFICATION (Only the adopted models are listed in table, for other output please reach our sales)

Model P/N		WP800-120400	WP800-240300	WP800-420180	WP800-480175	WP800-600140
OUTPUT	Rating output	12V±5%	24V±5%	42V±5%	48V±5%	60V±5%
	Output current range	0-40A	0-30A	0-20A	0-18A	0-14A
	Output power @AC220V	480W	720W	840W	840W	840W
	Line regulation	1%				
	Load regulation	3%				
	Start-up 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)				
	Ripple voltage	<output voltage*1% (20MHz， AC coupling mode, connected in parallel with 0.1uf ceramic capacitor and 47uf electrolytic capacitor)				
	LED indicator	GREEN normal running, RED FLASHING errors				
Input	Rated input voltage	100 - 240VAC 50 / 60Hz				
	Input voltage range	90 - 264VAC				
	Power factor (Typ.)	PF>0. 96 @ FULL LOAD				
	Input current (Typ.)	10A@100VAC				
	Inrush current (Typ.)	Cold start 75A @230VAC				
	Standby input power	< 5W				
	Efficiency (Typ.)	89%	93%	94%	94%	94%
PROTECTION						
	Short circuit Note.5	Protection type : Shut down output				
	Over voltage	110% output				
	Reverse polarity	By internal relay				
ENVIRONMENT	Over temperature	Shut down output, recovers automatically after temperature goes down				
	Working temperature	-10 - +40℃ (Refer to " Derating Curve")				
	Working humidity	0 - 90% RH				
	Storage temperature, humidity	-40 - +70℃, 0 - 95% RH				
SAFETY & EMC (Note.6)						
	Max. temperature rise	< 40℃				
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)				
	Safety standards	IEC62368				
	EMC emission	Parameter	Standard			Class
		Conducted	EN55032 FCC PART15			Class B
		Radiated	EN55032 FCC PART15			Class B
		Harmonic Current	EN61000-3-2			.....
		Voltage Flicker				
Others	MTBF	30000H				
	Size	280*145*47.7mm(L*W*H)				
	Weight	1800g				

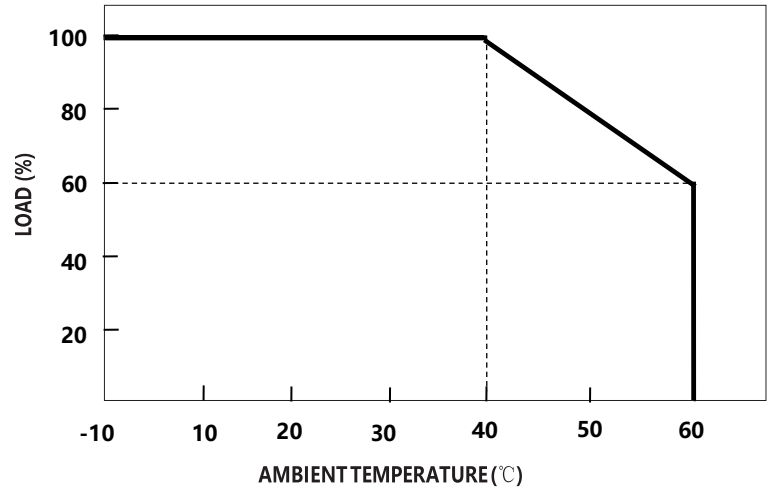
Notes

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℃ 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℃ 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."

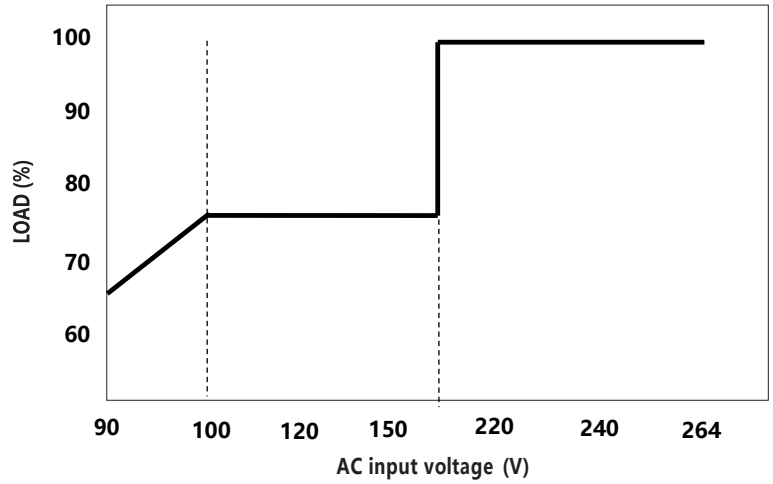
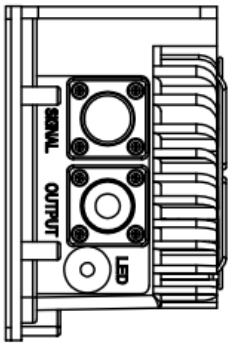
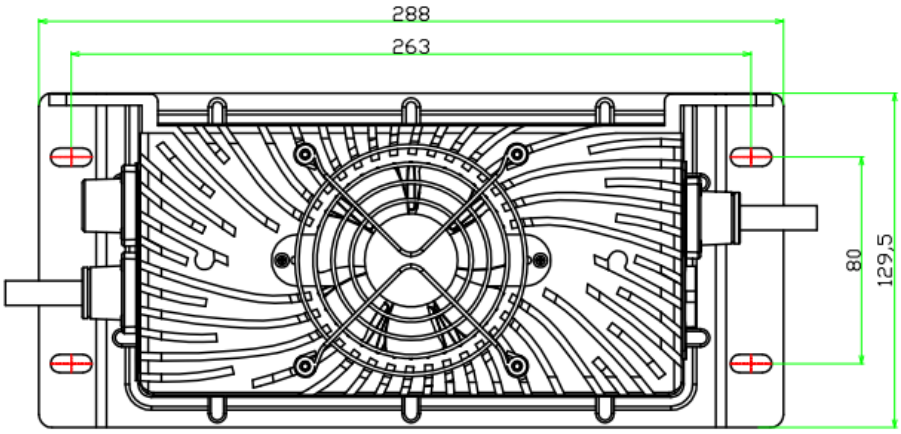
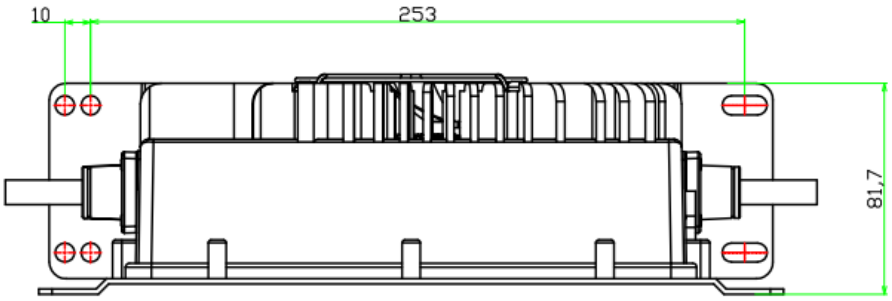
Diagram block



Temperature derating curve



AC input derating curve



■ Mechanical specification