



GRC/GRW Marine charger/Marine stabilized power supply)

▶ Overview

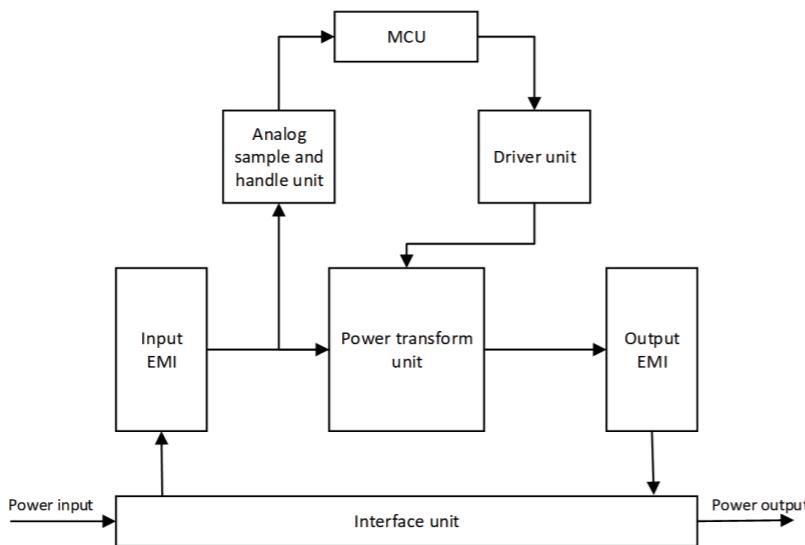
GRW marine stabilized power supply can be used as a normal AC/DC stabilized voltage source for load, and the GRC marine charger can be used to charge the storage battery in CV or CC mode. The power supply conforms to the requirement GD019-2024 and the Classification of Sea-going Steel Ships proposed by CCS.

▶ Product features

- Wide-range input voltage;
- Wide-range adjustable output voltage;
- Supports parallel operation of up to 5 devices for capacity expansion (need no more additional components);
- Supports panel potentiometer adjustment of output voltage and charging current;
- Supports Modbus communication for setting output voltage or current curve;
- Multiple protection;
- Supports baseplate installation and DIN rail installation.

▶ Product composition

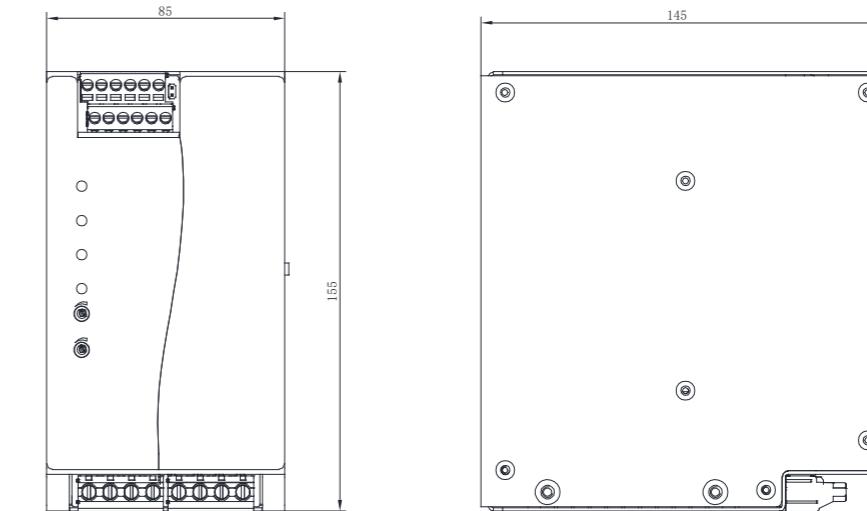
The device is consisted of power transform unit, EMI unit, interface unit, analog sample and handle unit, driver unit and MCU.



▶ Technical Index

- Input voltage: 3Φ AC380V/400V±15%, 50/60Hz±6%, and other specifications can be customized;
- Rated output voltage: DC24V, adjustable between 18V and 29V;
- Rated output current: 10A/20A/40A;
- Line regulation: $\pm 0.5\% \times V_o$;
- Load regulation: $\pm 1\% \times V_o$;
- Voltage accuracy: $\pm 1\% \times V_o$;
- Dynamic characteristics: $\pm 5\% \times V_o$, 10ms (10%-90%, 90%-10%) ; $\pm 2\% \times V_o$, 10ms (0%-25%-50%-75%-100%, 100%-75%-50%-25%-0%) ;
- Efficiency: $\geq 92\%$;
- Voltage ripple: $\leq 200\text{mVp-p}$ (20MHz);
- Overshoot: $\pm 5\% \times V_o$;
- Overload capacity: 1.25×I_{rated}, 60s;
- Operation temperature: -25°C~+70°C.

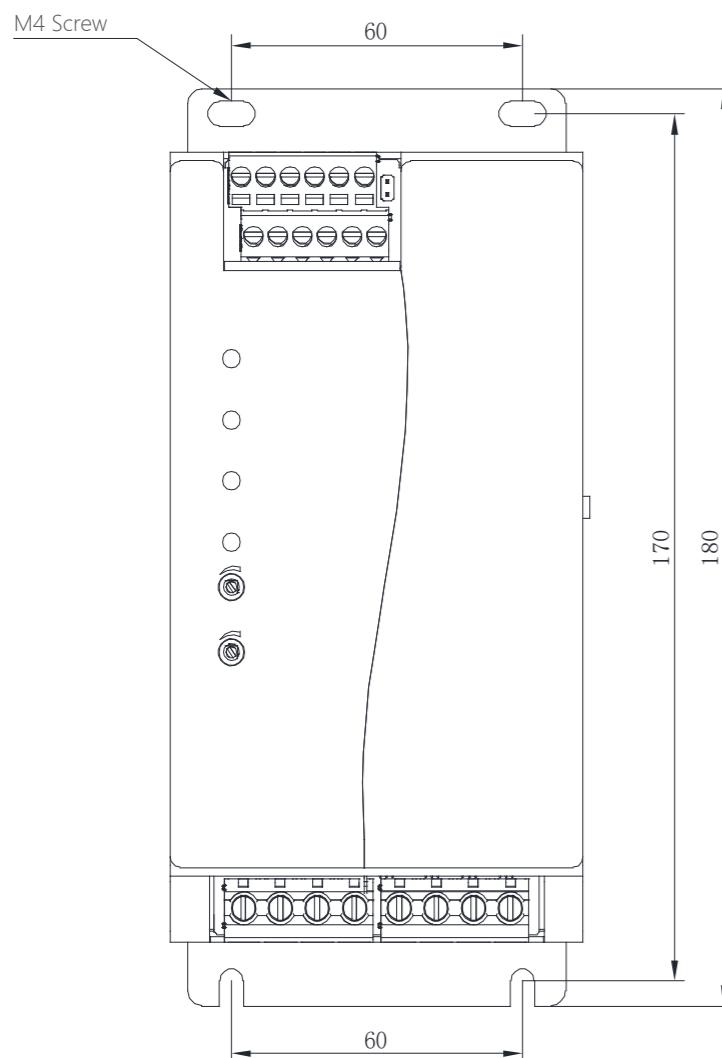
▶ Outline dimensions



Outline dimensions: 85x155x145(mm, wide x height x depth, without assemble parts)

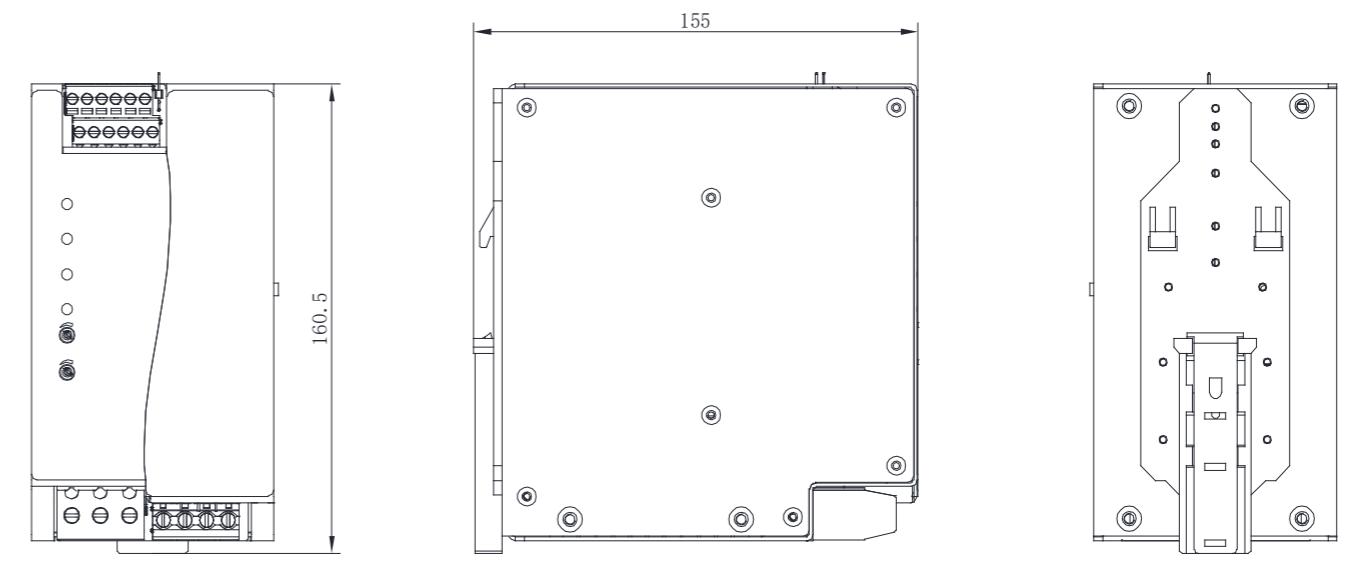
► Installation dimensions

■ Baseplate installation



Installation dimensions: 170x60(mm), 4xM4 screw, the installation baseplate thickness 2mm.

■ DIN rail installaiton



► Model naming

MODEL	Company code	GR	C	40	-24	T	3	□□
TYPE: C-charger, W-stabilized power supply								
Rated output current								
Rated output voltage								
Inputtype: D-DC, S-single phase AC, T-three phase AC								
Input specifications: 1-DC24V, 2-AC220V, 3-AC380V/400V, 4-AC440V								
default: reserve								