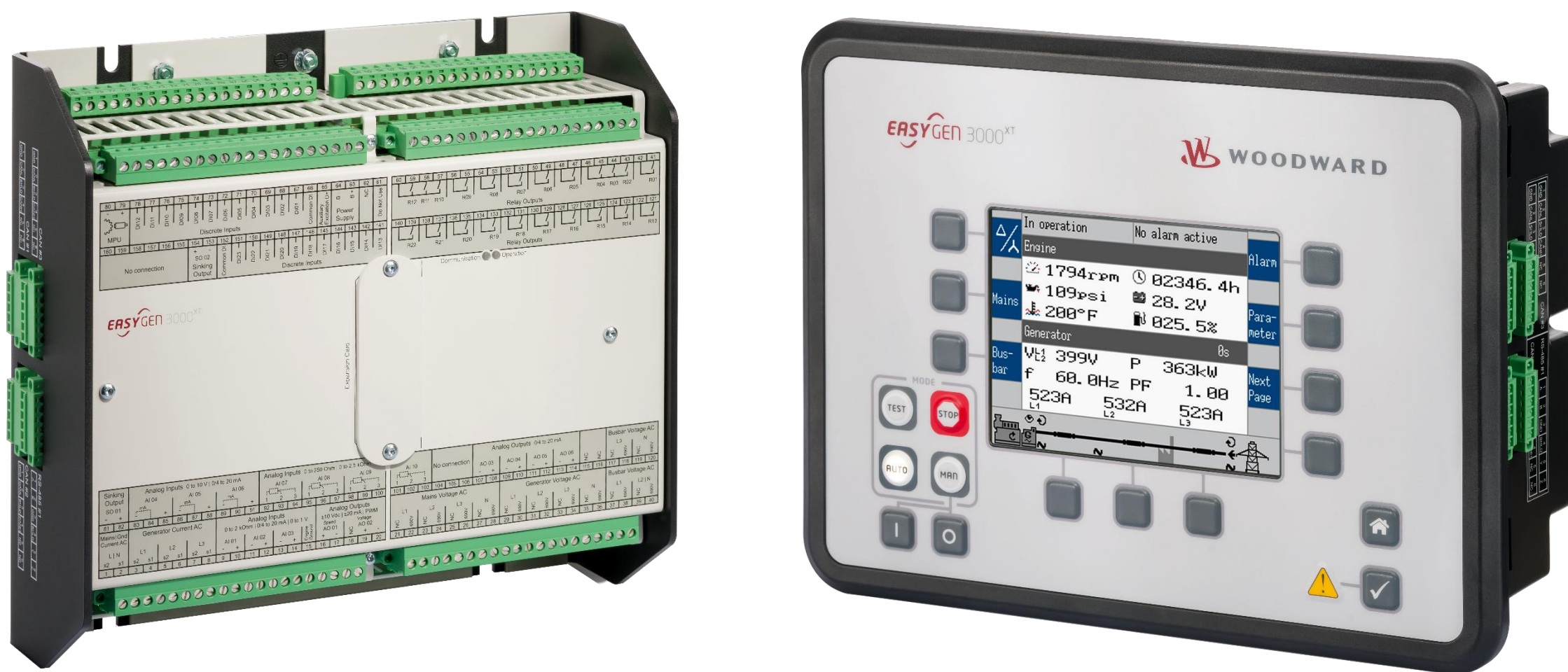


easYgen-3000XT

Reliable Control for Complex Power Systems

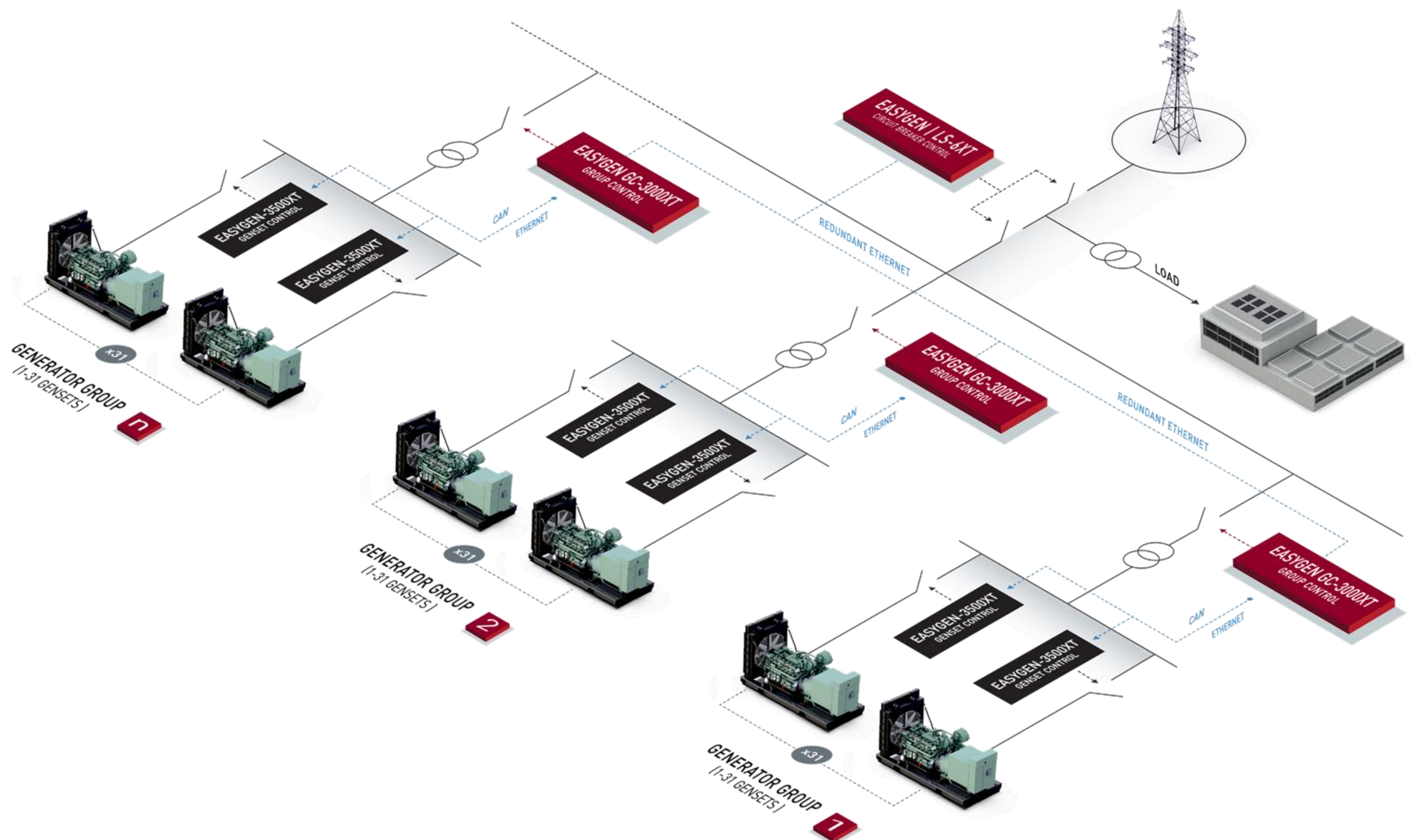


- › Proven Reliability
- › Cost-Effective Energy Management
- › Scalable Breaker Management
- › Enhanced Asset Protection
- › Prevent single point of failure
- › standardize + simplify complexity

Simplifying and Efficiently Managing Complex Power Systems with Standardized Controls

Maximize reliability and safeguard your assets with proven quality and advanced redundancy features designed to eliminate single points of failure, even in extreme environmental conditions.

The innovative control architecture streamlines the management of complex systems, including utility feeds, tie breakers, and load-sharing networks. Leveraging globally standardized controls ensures greater flexibility, accelerates planning and commissioning, and optimizes manufacturing and inventory management processes.



Power	
Power Supply	12 / 24 V _{DC} (8 to 40 V _{DC})
Intrinsic consumption	max. 22 W (LT: max.32 W)
Ambient	
temperature operation	No Display and Low Temperature Variant: -40°C to 70°C With Display: -20°C to 70 °C
temperature storage	-30 to 80 °C / -22 to 176 °F
humidity	95%, non-condensing
Voltage (software configurable)	both ranges within one unit on different terminals, Y/Δ
100 V _{AC}	
Rated (V _{rated})	69/120 V _{AC}
Max. value (V _{max})	86/150 V _{AC}
400 V _{AC}	
Rated (V _{rated})	277/480 V _{AC}
Max. value (V _{max})	346/600 V _{AC}
Rated surge volt. (V _{surge})	4.0 kV
400 / 600 V _{AC} **	** easYgen 3400 / 3500 XT only
Rated (V _{rated})	400/690 V _{AC} *
	* 3 phase 3 wire Δ constellations are limited to 600 V _{AC}
Max. value (V _{max})	520/897 V _{AC}
Rated surge volt. (V _{surge})	6.0 kV
Measuring frequency	50/60 Hz (40 to 85 Hz) (30 to 85 Hz)**
High Impedance Input; Resistance per path	2.0 M 2.5 MΩ** ** easYgen 3400 / 3500 only
Accuracy	Class 0.5
Measurable alternator windings	3p-3w, 3p-4w, 3p-4w OD, 1p-2w, 1p-3w
Setting range	primary 50 to 650,000 V _{AC}
Linear measuring range	1.25×V _{rated}
Max. power consumption per path	< 0.15 W
Current	
	(Isolated, software configurable)
Rated (I _{rated})	1 A or 5 A
Linear measuring range	I _{gen} = 3.0×I _{rated} I _{mains/ground} = 1.5 × I _{rated}
Setting range	1 to 32,000 A
Burden	< 0.10 VA
Rated short-time overcurrent (1 s)	[1] 50×I _{rated} , [5] 10×I _{rated}
Accuracy	Class 0.5

Analog inputs (isolated)		freely scalable
Type 1		0 to 1 V 0 to 2000 Ω 0 to 20 mA
Resolution		16 Bit
Maximum permissible voltage against genset Ground		9 V
Maximum permissible voltage between genset Ground & PE		100 V
Type 2 (easYgen-3400 / 3500 XT <u>P2</u> only)		0 to 10 V 0 to 20 mA
Resolution		14 Bit
Maximum permissible voltage against PE (Ground)		100 V
Maximum differential voltage to other DC Analog Inputs		15 V
Type 3 (easYgen-3400 / 3500 XT <u>P2</u> only)		0 to 250 Ω 0 to 2500 Ω
Resolution		14 Bit
Maximum permissible voltage against PE (Ground)		100 V
Maximum differential voltage to other DC Analog Inputs		10 V
Analog outputs (isolated)		freely scalable
Type 1		± 10 V / ± 20 mA / PWM
Basic insulation voltage (continuously, AVR _{out})		500 V _{AC}
Reinforced insulation voltage (continuously, AVR _{out})		300 V _{AC}
Insulation voltage (continuously, Gov _{out})		100 V _{AC}
Versions		±10 V _{DC} , ±20 mA, PWM
Resolution		12 Bit
Output ± 10 V (scalable)		internal resistance
Output ± 20 mA (scalable)		maximum load 500 Ω
Type 2 (easYgen-3400 / 3500 XT <u>P2</u> only)		0/4 to 20 mA
Insulation voltage (continuously)		100 V _{AC}
Insulation voltage (test; >2 s)		1700 V _{AC}
Resolution		12 Bit
Output		maximum load 500 Ω

Power

Setting range	0.5 to 99,999.9 kW/kvar
Accuracy	Class 1.0
Discrete inputs	Isolated
Input range	12/24 V _{DC} (8 to 40 V _{DC})
Input resistance	approx. 20 kΩ
Transistor outputs (P2 only)	Isolated
Rated switching voltage	max. 24 V _{DC}
Maximum switching voltage	40 V _{DC}
Maximum switching current	300 mA DC
Isolation Test voltage (<1s)	500 V _{AC}
Isolation voltage (continuously)	100 V _{AC/DC}
Relay outputs	Isolated
Contact material	AgNi
Load (GP)	2.00 A _{AC} @250 V _{AC} , resistive GP 2.00 A _{DC} @24 V _{DC} , inductive 0.36 A _{DC} @125 V _{DC} * / 0.18 A _{DC} @250 V _{DC} * * Not suitable for USA and Canada applications. Not evaluated by UL.

Housing

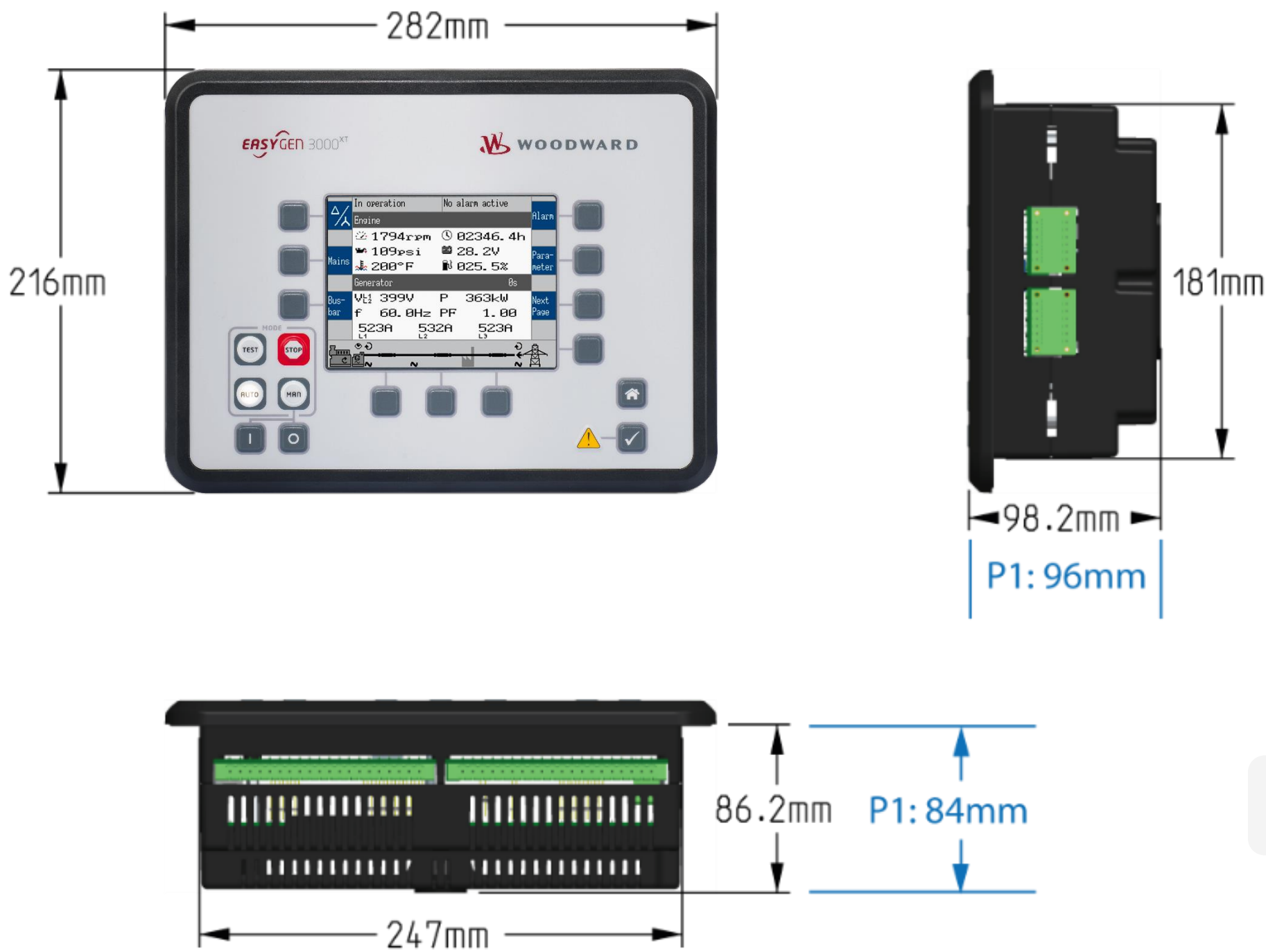
Front panel flush mounting	Plastic housing
Dimensions WxHxD	282 × 216 × 96 mm
Front cutout WxH	249 [+1.1] × 183 [+1.0] mm
Connection	screw/plug terminals 2.5 mm ²
Front	insulating surface
Sealing	
	Front IP66 (with screw fastening)
	Front IP54 (with clamp fastening)
	Back IP20
Weight	approx. 1,850 g

Housing

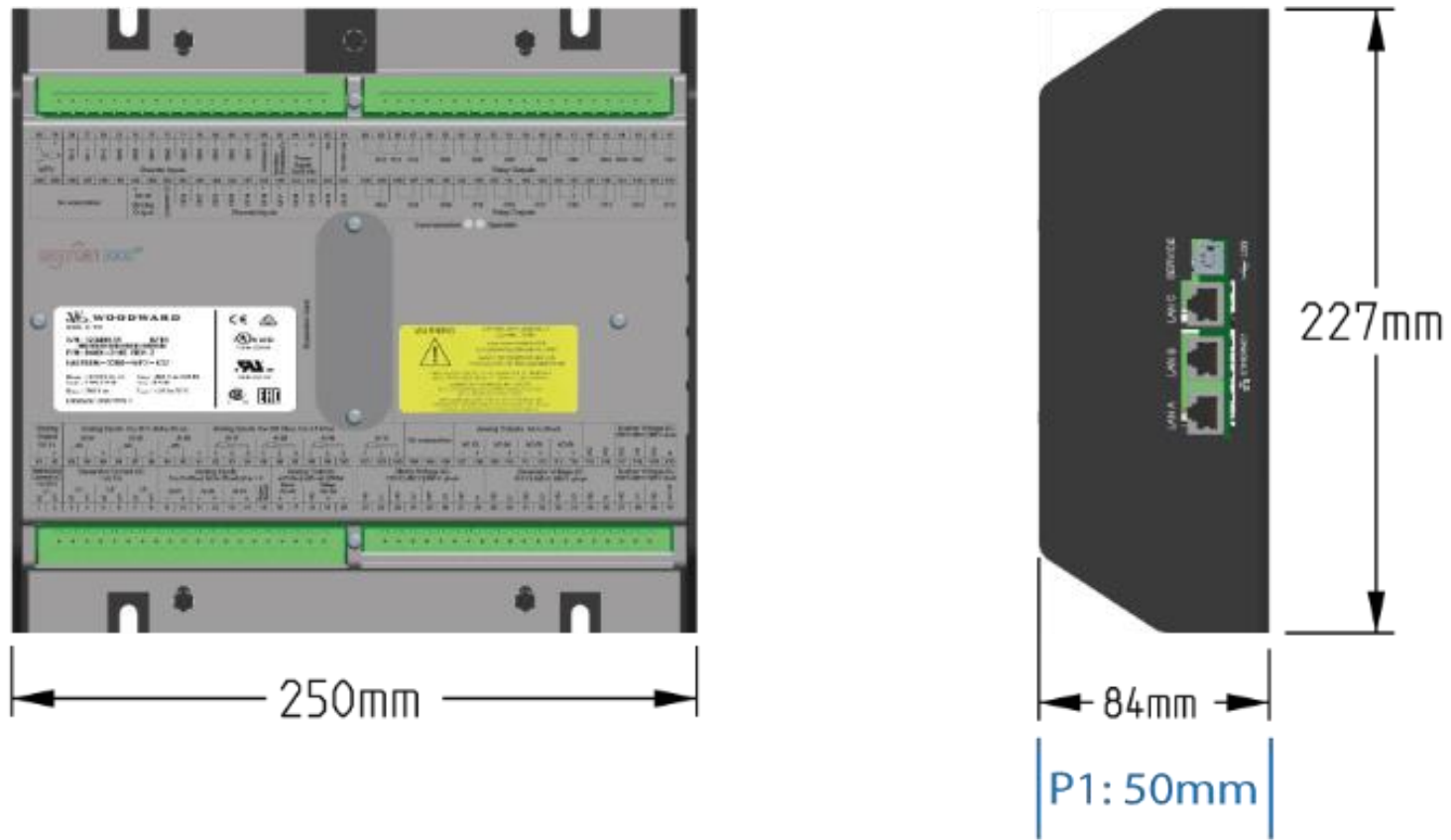
Back panel mounting	Powder Coated Sheet metal housing
Dimensions WxHxD	
	P1 250 × 228 × 50 mm
	P2 250 × 228 × 84 mm
Connection	screw/plug terminals 2.5 mm ²
Protection system	IP 20
Weight	approx. 1,750 g
Disturbance test (CE)	tested according to applicable IEC standards
Compliance	 VDE-4105, VDE-4110
Marine	

Dimensions

Plastic housing for front panel mounting



Metal housing for cabinet mounting



Blue color: Package P1 is more compact depth + height