

<b>Power</b>	
Power Supply	12 / 24 V <sub>DC</sub> (8 to 40 V <sub>DC</sub> )
Intrinsic consumption	max. 22 W (LT: max.32 W)
<b>Ambient</b>	
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
<b>Voltage</b> (software configurable)	
100 V <sub>AC</sub>	both ranges within one unit on different terminals, Y/Δ
Rated (V <sub>rated</sub> )	69/120 V <sub>AC</sub>
Max. value (V <sub>max</sub> )	86/150 V <sub>AC</sub>
400 V <sub>AC</sub>	
Rated (V <sub>rated</sub> )	277/480 V <sub>AC</sub>
Max. value (V <sub>max</sub> )	346/600 V <sub>AC</sub>
Rated surge volt. (V <sub>surge</sub> )	4.0 kV
400 / 600 V <sub>AC</sub> **	** easYgen 3400 / 3500 XT only
Rated (V <sub>rated</sub> )	400/690 V <sub>AC</sub> *
	* 3 phase 3 wire Δ constellations are limited to 600 V <sub>AC</sub>
Max. value (V <sub>max</sub> )	520/897 V <sub>AC</sub>
Rated surge volt. (V <sub>surge</sub> )	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 <sub>AC</sub>
Linear measuring range	1.25×V <sub>rated</sub>
Max. power consumption per path	< 0.15 W
<b>Current</b> (Isolated, software configurable)	
Rated (I <sub>rated</sub> )	1 A or 5 A
Linear measuring range	I <sub>gen</sub> = 3.0×I <sub>rated</sub> I <sub>mains/ground</sub> = 1.5 × I <sub>rated</sub>
Setting range	1 to 32,000 A
Burden	< 0.10 VA
Rated short-time overcurrent (1 s)	[1] 50×I <sub>rated</sub> , [5] 10×I <sub>rated</sub>
Accuracy	Class 0.5

<b>Analog inputs</b> (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
<b>Analog outputs (isolated)</b>	
	freely scalable
Type 1	± 10 V / ± 20 mA / PWM
Basic insulation voltage (continuously, AVR <sub>out</sub> )	500 V <sub>AC</sub>
Reinforced insulation voltage (continuously, AVR <sub>out</sub> )	300 V <sub>AC</sub>
Insulation voltage (continuously, Gov <sub>out</sub> )	100 V <sub>AC</sub>
Versions	±10 V <sub>DC</sub> , ±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 <sub>AC</sub>
Insulation voltage (test; >2 s)	1700 V <sub>AC</sub>
Resolution	12 Bit
Output	maximum load 500 Ω

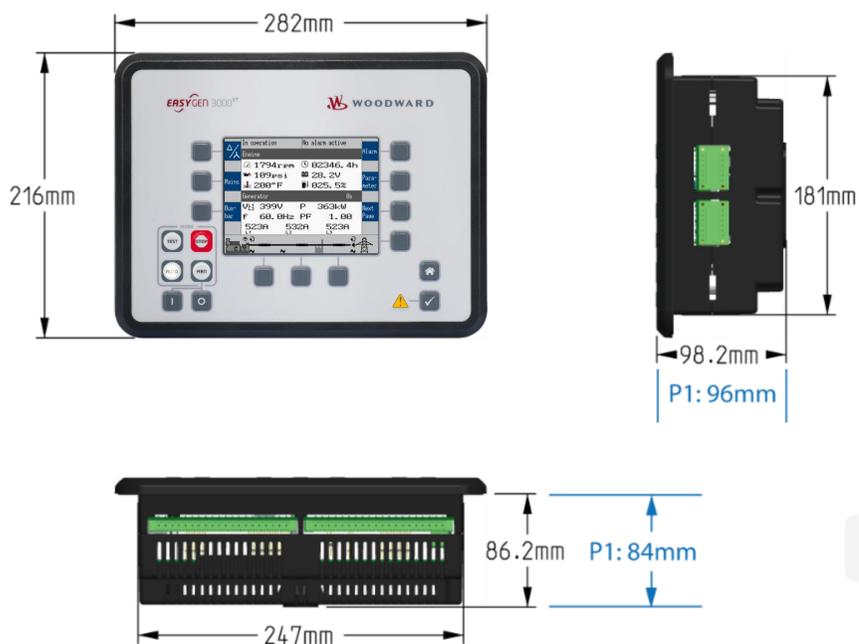
Power	
Setting range	0.5 to 99,999.9 kW/kvar
Accuracy	Class 1.0
Discrete inputs	
Input range	12/24 V <sub>DC</sub> (8 to 40 V <sub>DC</sub> )
Input resistance	approx. 20 k $\Omega$
Transistor outputs (P2 only)	
Rated switching voltage	max. 24 V <sub>DC</sub>
Maximum switching voltage	40 V <sub>DC</sub>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

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

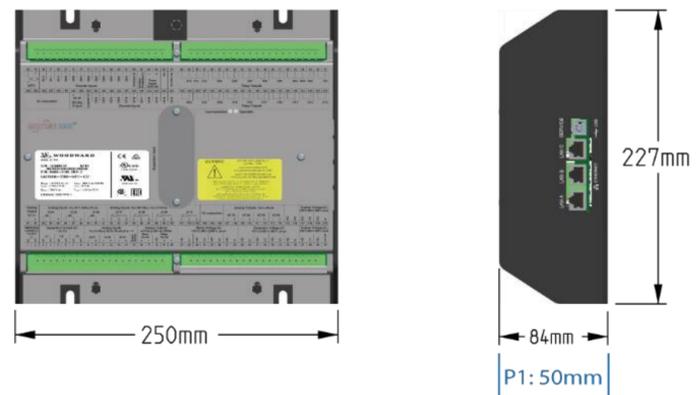
Housing	
Back panel mounting	
	Powder Coated Sheet metal housing
Dimensions WxHxD	
	P1 250 × 228 × 50 mm
	P2 250 × 228 × 84 mm
Connection	screw/plug terminals 2.5 mm <sup>2</sup>
Protection system	IP 20
Weight	approx. 1,750 g
Disturbance test (CE)	tested according to applicable IEC standards
Compliance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