

37642 easYgen-3000XT-P2 Wiring Terminal Comparison

Use case: Exchange current easYgen with an equivalent easYgen-XT control

The tables below compare easYgen-3000XT terminals with those of easYgen-3000.

The XT-P2 comparison covers terminals 1-160.

Terminals 1 to 80 (PCB one) are available in all variants,
terminals 81 to 160 (second PCB) are available only in two-PCB "P2" variants
e.g., easYgen-3400XT-P2, and easYgen-3500XT-P2(-LT).

easYgen-3000XT terminal description	Pin/ Terminal	easYgen-3000 terminal description	Required wiring changes of current 3000 System	Required software configuration changes in 3000XT control	
Mains/GND Current AC	1	Mains/GND Current AC		Configure as 1A or 5A.	
	2				
Generator Current AC	3	Generator Current AC			
	4				
	5				
	6				
	7				
	8				
Analog Inputs	9	Analog Inputs		Configure inputs as resistance/current/voltage.	
	10				
	11				
	12				
	13				
	14				
	15		No short-cut between pin 15/16! Move wire from pin 15 to pin 16. Move wire from pin 62 to pin 15. (Leave pin 62 unconnected)		
Analog Outputs	16			Configure output as voltage/current/PWM.	
	17	Analog Outputs			
	18		Move wire from pin 18 to pin 19. Leave pin 18 not connected.	Configure output as voltage/current/PWM.	
	19				
		20			
Mains Voltage AC (21, 23, 25, 27 - NC)	21	Mains Voltage AC	Notes easYgen-3100XT/3200XT-P1(-LT): upto 480 Vac easYgen-3400XT/3500XT-P1/ P2(-LT): upto 690 Vac. Connect only four terminals in each block for L1, L2, L3, and N respectively.	Range change is configured by defined transformer ratio.	
	22				
	23				
	24				
	25				
	26				
	27				
	28				
Generator Voltage AC (29, 31, 33, 35 - NC)	29	Generator Voltage AC			
	30				
	31				
	32				
	33				
	34				
	35				
	36				
Busbar Voltage AC (37, 39 - NC)	37	Busbar Voltage AC			These terminals together with terminals 117 to 120 form full three phase busbar measurement (P2 only).
	38				Notes for P2 only P1 busbar terminal "N" (pin 40) becomes "L2". Pin 120 is 3phase busbar terminal "N"!
	39				
	40				

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easYgen-3000XT terminal description	Pin/ Terminal	easYgen-3000 terminal description	Required wiring changes of current 3000 System	Required software configuration changes in 3000XT control
Relay Outputs	41	Relay Outputs		
	42			
	43			
	44			
	45			
	46			
	47			
	48			
	49			
	50			
	51			
	52			
	53			
	54			
	55			
	56			
	57			
	58			
	59			
	60			
Earth	61*)	Earth		
NC	62	Engine Ground	Move wire from pin 62 to pin 15. Leave pin 62 unconnected.	
Power Supply	63	Power Supply		
	64			
Auxiliary Excitation	65	Auxiliary Excitation		
Discrete Inputs	66	Discrete Inputs		
	67			
	68			
	69			
	70			
	71			
	72			
	73			
	74			
	75			
	76			
	77			
	78			
MPU	79	MPU		
	80			

*) Pin 61 of metal housing is not connected (separate earth screw)

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easYgen-3000XT-P2 terminal description	Pin/ Terminal	easYgen-3000 terminal description	Required wiring changes of current 3000 System	Required software configuration changes in 3000XT control
Sinking Output SO1	81	Sinking Output SO1		
	82			
Analog Inputs 0 to 10 V 0/4 to 20 mA	83	Analog Inputs 0 to 10 V 0/4 to 20 mA		
	84			
	85			
	86			
	87			
	88			
	89			
	90			
	91			
Analog Inputs 0 to 250 Ohm 0 to 2.5 kOhm	92	Analog Inputs 0 to 250 Ohm 0 to 2.5 kOhm		
	93			
	94			
	95			
	96			
	97			
	98			
	99			
	100			
	101			
	102			
	103			
N. C.	104	N. C.		
	105			
	106			
Analog Output AO3 0/4 to 20 mA	107		Additional analog output can be wired here. Use 500 Ohm resistor for current mode.	
	108			
Analog Output AO4 0/4 to 20 mA	109	Analog Output AO4 0/4 to 20 mA		
	110			
Analog Output AO5 0/4 to 20 mA	111	Analog Output AO5 0/4 to 20 mA		
	112			
Analog Output AO6 0/4 to 20 mA	113	Analog Output AO6 0/4 to 20 mA		
	114			
N. C.	115	N. C.		
	116			
Busbar Voltage AC (117, 119 - NC)	117		These terminals together with terminals 37..40 form full three phase busbar measurement. Notes P1 busbar terminal "N" (pin 40) becomes "L2" only. Pin 120 is 3phase busbar terminal "N"!	Range change is configured by defined transformer ratio.
	118			
	119			
	120			

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easYgen-3000XT-P2 terminal description	Pin/ Terminal	easYgen-3000 terminal description	Required wiring changes of current 3000 System	Required software configuration changes in 3000XT control
Relay Outputs	121	Relay Outputs		
	122			
	123			
	124			
	125			
	126			
	127			
	128			
	129			
	130			
	131			
	132			
	133			
	134			
	135			
	136			
	137			
	138			
	139			
	140			
Discrete Inputs	141	Discrete Inputs		
	142			
	143			
	144			
	145			
	146			
	147			
	148			
	149			
	150			
	151			
	152			
Sinking Output SO2	153	Sinking Output SO2		
	154			
N. C.	115	N. C.		
	116			
	117			
	118			
	119			
	120			