

1. Main Differences easYgen-3000 Series

easYgen-3000 Series	easYgen-3100/3200 (P1 & P2)	easYgen-3400/3500 (P1)
Integrated generator group breaker control	-	√
Run-up synchronization	-	√
LS-5 support	-	√

2. New Functions easYgen-3000 Series

easYgen-3000 Series	easYgen-3100/3200 (P1 & P2)	easYgen-3400/3500 (P1)
Graphical color display	√	- * ¹
Phase angle deviation (transformer vector group adjustment)	√	- * ¹
LogicsManager for		
• Manual engine start/stop	√	- * ¹
• Manual open/close GCB	√	- * ¹
• Manual open/close MCB	√	- * ¹
Warm-up run in multiple isolated operation	√	- * ¹
Power derate function by		
• J1939 request	√	- * ¹
• Analog input	√	- * ¹
Alarm class C and E can be delayed in isolated operation	√	- * ¹
Single bit commands for 16 interface command bits for free remote control	√	- * ¹
New monitoring and control functions according to the German grid code 2011. The arrangements support the mains to ensure electrical power supply		
• Mains voltage increase monitoring. This monitor is realized as a moving voltage average monitor within 10 minutes	√	√
• Voltage monitoring with incorporated investigation of reactive power import, (QV monitoring) acting on generator voltage and current	√	√
• Time dependent voltage monitoring (FRT - Fault Ride Through)	√	√
• Dynamic mains stabilization: Automatic active power derating with increasing mains frequency	√	√
• Dynamic mains stabilization: Automatic power factor regulation in relation to the momentarily active power value	√	√
• Mains undervoltage monitoring can be configured to 45 % rated voltage (in former times 50 %)	√	√
The mains decoupling function, can act additionally on		
• Mains voltage increase monitoring	√	√
• QV monitoring	√	√
• Time dependent voltage monitoring	√	√
Test capability for mains decoupling supports additionally		
• Mains voltage increase monitoring	√	√
• QV monitoring	√	√
• Time dependent voltage monitoring	√	√
The test decoupling screen supports additionally		
• The configuration for mains voltage increase monitoring	√	√
Additional ECU support		
• Support of MTU ECU8	√	√

*¹ = already included in former easYgen-3400/3500 release