



SHIFTING THE LIMITS

Wels, October 25th 2016

USE OF FRONIUS INVERTERS WITH THE PIDBULL SYSTEM FOR STRING INVERTERS (ANTI PID SYSTEM)

Fronius International GmbH

hereby confirms that the below listed inverters (table 1) may be used together with the above mentioned device without voiding our commitments as stipulated in our Fronius warranty terms and conditions, provided that:

- / the described presets are confirmed by Pidbull NV (see table 1) and
- / by following all relevant instructions (Installation Instructions, Operating Instructions, Safety Instructions, ...).

This authorization relies on tests, carried out and documented by PIDBULL NV - Edison Energy Group.

Inverter types	PRESETS of the Pidbull system *	
	Max. permitted output voltage * (voltage between each pole and ground) [Vdc]	threshold voltages * (voltages to turn off / on the Pidbull) [Vdc] / [Vdc]
Fronius Symo 3.0-3-S	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 3.7-3-S	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 4.5-3-S	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 3.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 3.7-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 4.5-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 5.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 6.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 7.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 8.2-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 10.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 12.5-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 15.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 17.5-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Symo 20.0-3-M	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 3.0-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 3.5-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 3.6-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 4.0-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 4.6-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 5.0-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 5.0-1 AUS	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 6.0-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Primo 8.2-1	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Eco 25.0-3-S	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON
Fronius Eco 27.0-3-S	500 Vdc ¹	65 Vdc OFF / 48 Vdc ON

¹The inverter splits the dc voltage nearly symmetrical to ground, no higher voltage to ground than 500Vdc will occur.

*** All presets have to be confirmed explicitly by Pitbull NV!**

Table 1 : Fronius inverters permitted for the use with the preset Pidbull System.



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Fronius declines any responsibility for any direct or indirect damage, injury or losses, arising or resulting from any malfunction, misuse, wrong setting or defect, apart of the scope of our warranty terms and conditions.

Fronius reserves the right, to resign this approval at any time, with immediate effect and without any information, for example if the technology or device shows disadvantageous effects for inverters or other parts of the system, or if new features interfere in any way.

Fronius International GmbH

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A handwritten signature in blue ink, appearing to read "Thomas Mühlberger".

DI Thomas Mühlberger
Head of Solution Management