



## Datasheet sonnenProtect-Plus

With the sonnenProtect-Plus, sonnenBatterie Hybrid 9.53 system owners are safe even if the power fails. With the Black-Start function even if the systems fully powers down and switches off over night, owners are safe. As soon as the sun rises in the morning, energizing the Solar PV directly feeding into the sonnenBatterie, the system will automatically wake itself up, start to recharge the batteries and power the back-up load circuits. All of this without the grid being present and without the need for the customer to turn anything back on.

The sonnenProtect-Plus also makes the life of the installer simpler, all they need to do as part of the sonnen Hybrid 9.53 installation is connect the Grid Supply, the Essential and Non-Essential Loads as well as any existing AC Coupled PV to the sonnenIntegrator switch board and proceed to simply plug the pre-wired connections into the sonnenBatterie directly, simple.

Maximum power (30 sec.)	3,000 W
Nominal power	2,500 W
Output voltage	230 VAC / ±10%
Nominal frequency	50 Hz
Network configuration in emergency operation	TNC
Switchover time	2 seconds
Weight	10.8 kg
Ambient temperatures	-5 °C – +45 °C
Dust and water protection	IP66
Dimensions (W / H / D)	500 / 350 / 200 cm
Overvoltage category	III
Grid supply connections rating	Miniature circuit breaker   Type C   63 A
Essential (backup) loads connections rating	Miniature circuit breaker   Type B   20 A
Non-essential (normal) loads connections rating	Miniature circuit breaker   Type C   50 A
AC Coupled solar PV connections rating	Miniature circuit breaker   Type C   25 A
sonnenBatterie connection rating	Miniature circuit breaker   Type B   20 A
sonnenBatterie metering connection rating	Miniature circuit breaker   Type B   6 A
Operating concept	Single-phase power supply via emergency circuit(s)*
Protective functions	Overcurrent protection, fault current protection
Recommended max AC connection route length to Grid Supply (line of sight)	295 cm

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\* The switch to emergency operation takes place automatically through the storage system.