

GOP POWER BOX

The smart system solution for your permanent power supply!

The GOP POWER BOX has particularly been developed for the independent electricity supply in rural areas. The entire system represents the heart of your Solar- or Renewable-System. The smart plug and play system that includes inverter, charge controller and a management system to connect to photovoltaic systems and other power sources like generators, block-units or wind turbines. Please ask for our battery pack which is already configured for the GOP POWER BOX.

Advantages of the GOP POWER BOX:

- On-/Off-grid system
- Backup-/UPS system <15 ms
- 230 VAC single-phase system
(400 VAC three-phase system on request)
- Output range (AC OUT): 1.0 kVA - 3.5 kVA (continuous output power)
- Compatible with photovoltaic-, wind-, water- and diesel generators
- Up to 7.0 kWp connectable for each MPPT
- Automatic start and stop of generators possible
- Battery connection compatible with 24 or 48 VDC AGM/Gel
(Lithium-/SUN SILO storage on request)



GOP POWER BOX	V1 1.6 kVA	V1 2.0 kVA	S1 1.4 kVA	S1 2.6 kVA	S1 4.0 kVA	S1 4.0 kVA
Type	V-1.6/24V-1-230-0-1.4	V-2.0/24V-1-230-0-1.4	S-1.4/48V-1-230-0-4	S-2.6/48V-1-230-0-4	S-4.0/48V-1-230-0-5	S-4.0/48V-1-230-0-7
Inverter	1 PH, 50 Hz					
Continuous output power	1300 VA	1600 VA	900 VA	2000 VA	3500 VA	3500 VA
30 min. 25 °C	-	-	1400 VA	2600 VA	4000 VA	4000 VA
5 sec. 25 °C	3000 VA	4000 VA	2800 VA	6500 VA	10500 VA	10500 VA
Output voltage	230 Vac \pm 2 %		230 Vac, pure sine wave (120 V on request)			
Input voltage range	Grid or generator 187 - 265 Vac / 19 - 33 V battery voltage		150 bis 265 Vac / 38 - 68 Vdc battery voltage			
Charging current battery from grid max.	40 A	50 A	12 A	30 A	50 A	50 A
Input current max. (transfer relay) / Output current max.	16 A	30 A	16 Aac / 20 Aac	50 Aac / 56 Aac		
Transfer time USP	< 20 ms		< 15 ms			
Self-consumption	> 10 W	> 11 W	1.3 W / 1.6 W / 8 W	1.8 W / 2 W / 10 W	1.8 W / 2.1 W / 14 W	1.8 W / 2.1 W / 14 W
Charge controller						
Nominal battery voltage	24 Vdc	24 Vdc	48 Vdc	48 Vdc	48 Vdc	48 Vdc
Max. PV power	1400 W	1400 W	4000 W	4000 W	5000 W	7000 W
Charging current max. 25 °C	50 A	50 A	65 A	65 A	80 A	120 A
Voltage PV String max.	100 V	100 V	145 V	145 V	145 V	900 V
Efficiency MPPT max.	98 %	98 %	> 99 %	> 99 %	> 99 %	> 99 %
Self-consumption	10 mA	10 mA	< 5 W / < 1 W	< 5 W / < 1 W	< 5 W / < 1 W	< 5 W / < 1.25 W
General data						
Dimensions H x B x T	800 x 600 x 25 mm	800 x 600 x 25 mm	800 x 600 x 25 mm	1000 x 800 x 300 mm	1000 x 800 x 300 mm	1000 x 800 x 300 mm
Weight	38 kg	40 kg	48 kg	52 kg	61 kg	65 kg
Temp. Funktionsbereich	-20 °C bis +55 °C	-20 °C bis +55 °C	-20 °C bis +55 °C	-20 °C bis +55 °C	-20 °C bis +55 °C	-20 °C bis +55 °C
Warranty	5 years on inverter and charge controller		10 years on inverter and charge controller			
Protection class	IP21	IP21	IP44	IP20	IP20	IP20
Battery voltage	24 V	24 V	48 V	48 V	48 V	48 V