



## Technical specification:

Technical Data	FB8KL1
<b>PV Input Data</b>	
MAX.DC Input Power	12KW
NO.MPPT Tracker	4
MPPT Range	120 - 500V
MAX.DC Input Voltage	500V
MAX.Input Current	14A
<b>Battery Input Data</b>	
Nominal voltage (Vdc)	48V
MAX.Charging/Discharging Current	190A/190A
Battery Voltage Range	40-60V
Battery Type	Lithium or Lead Acid Battery
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
<b>AC Output Data (On-Grid)</b>	
Nominal output power Output to Grid	8KVA
MAX. Apparent Power Output to Grid	8.8KVA
Nominal Output Voltage	220 , 230V , 240V
Output Frequency	50/60Hz ( 45 to 54.9Hz / 55 to 65Hz )
Nominal AC Current Output to Grid	34.8A
Max.AC Current Output to Grid	38.3A
Max.AC Current From Grid	50A
Output Power Factor	0.8leading...0.8lagging
Output THDI	< 2%
<b>AC Output Data (Back-Up)</b>	
Nominal. Apparent Power Output	8KVA
MAX. Apparent Power Output	8.8KVA
Nominal Output Voltage L-N	220 , 230V , 240V
Nominal Output Frequency	50Hz/60Hz
Output THDU	< 2%
<b>Efficiency</b>	
Europe Efficiency	>=97.8%
MAX. Battery to Load Efficiency	>=97.2%

## Protection

Grounding detection	YES
Arc Fault Protection	Optional
Island Protection	YES
Battery reverse Polarity	YES
Insulation Resistor Detection	YES
Residual Current Monitoring Unit	YES
Output Over Current Protection	YES
Back-up Output Short Protection	YES
Terminal temperature detection	YES
Output Over Voltage Protection	YES
Output Under Voltage Protection	YES

## General Data

Operating Temperature Range	-25 ~ +60°C
Relative Humidity	0-95%
Operating Altitude	0~4000m ( derating above 2000m )
Ingress Protection	IP65
Weight	41kg
Size (Width*Height*Depth )	460mm x 760mm x 225mm
Cooling	Natural Convection
Noise emission	<38dB
Display	LCD
Communication With BMS/Meter/EMS	RS485 , CAN
Supported communication interface	RS485, WLAN, 4G(optional)
Self-consumption at night	< 2.5 W (with battery enabling < 5 W)

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