



6K

AC-Coupled Inverters

S6-EA1P6K-L

Single Phase | Low Voltage



- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Supports general setting options for lithium batteries, suitable for non-communicating batteries
- Facilitates low-power standby mode to minimize overall system power usage
- Supports peak shaving control

AUSTRALIA

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DATASHEET

Models	6K
Battery	
Battery type	Li-ion
Battery voltage range	40 - 60 V
Start up voltage	40 V
Max. charge / discharge current	125 A
Communication	CAN
Input AC (Grid side)	
Input voltage range	187 - 253 V
Max. input current	27.3 A / 26.1 A
Frequency range	45 - 55 Hz / 55 - 65 Hz
Output AC (Grid side)	
Rated output power	6 kW
Max. apparent output power	6 kVA
Operation phase	1/N/PE
Rated grid voltage	220 V / 230 V
Grid voltage range	187 - 253 V
Rated grid frequency	50 Hz
Rated grid output current	27.3 A / 26.1 A
Max. output current	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Efficiency	
BAT charged / discharged to AC max. efficiency	> 93.5%
Protection	
Protection class	I
Over voltage category	DC II / AC III
Battery reverse protection	Yes
Battery over and under voltage protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Temperature protection	Yes
General Data	
Dimensions (W × H × D)	440 × 465 × 192 mm
Weight	19.9 kg
Topology	High frequency isolation
Operating ambient temperature range	-25 ~ +60°C
Ingress protection	IP66
Cooling concept	Natural cooling
Max. operation altitude	3000 m
Grid connection standard	C10/11, 50549, G98, G99, VDE4105, AS4777.2, France
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3
Features	
DC connection	Terminal Block
AC connection	Quick connection plug
Display	LED indicator & Bluetooth + APP
Communication	RS485, CAN, Optional: Wi-Fi, LAN