

AC-Coupled Inverters

S6-EA1P(3.6-6)K-L

Single Phase | Low Voltage

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

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DATASHEET

S6-EA1P(3.6-6)K-L

Models	3.6K	4.6K	5K	6K
Battery				
Battery type	Li-ion			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	75 A	96 A	105 A	125 A
Communication	CAN			
Input AC (Grid side)				
Input voltage range	187 - 253 V			
Max. input current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Output AC (Grid side)				
Rated output power	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.6 kVA	4.6 kVA	5 kVA	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 / 60 Hz			
Rated grid output current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Max. output current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	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	4000 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			