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S6-EH1P(3-6)K-L-PRO

New PRO model provides solutions for demanding power scenarios

- Generator connectivity with multiple input methods and automatic generator On/Off control
- Automatic UPS switching
- 10 second 200% surge power backup overload capability
- Supports 1ph and 3ph flexible connection with max 36kW in parallel
- Up to 135A max charge/discharge current
- 6 customisable charge/discharge time settings
- Compatible with lead-acid and lithium batteries, with multiple battery protection features
- Supports peak shaving control in both “self-use”and “generator” mode

DATASHEET

S6-EH1P(3-6)K-L-PRO

Models	3K		3.6K		5K		6K	
Input DC (PV side)								
Recommended max. PV power	4.8 kW		5.76 kW		8 kW		9.6 kW	
Max. input voltage	500 V				600 V			
Rated voltage					330 V			
Start-up voltage					90 V			
MPPT voltage range					90-520 V			
Max. input current					16 A / 16 A			
Max. short circuit current					24 A / 24 A			
MPPT number/Max. input strings number					2/2			
Battery								
Battery type	Li-ion / Lead-acid							
Battery voltage range	40-60 V							
Max. charge / discharge power	3 kW		3.6 kW		5 kW		6 kW	
Max. charge / discharge current	70 A		80 A		112 A		135 A	
Communication	CAN/RS485							
Output AC (Grid side)								
Rated output power	3 kW		3.6 kW		5 kW		6 kW	
Max. apparent output power	3.3 kVA		4 kVA		5.5 kVA		6.6 kVA	
Operation phase	1/N/PE							
Rated grid voltage	220 V / 230 V							
Rated grid frequency	50 Hz / 60 Hz							
Rated grid output current	13.6 A / 13.0 A		16.4 A / 15.7 A		22.7 A / 21.7 A		27.3 A / 26.1 A	
Max. output current	15 A		20 A		25 A		30 A	
Power factor	>0.99 (0.8 leading - 0.8 lagging)							
THDi	<2%							
Input AC (Grid side)								
Input voltage range	187-253 V							
Max. input current	20.5 A		25 A		34.1 A		40 A	
Frequency range	45-55 Hz / 55-65 Hz							
Output AC (Back-up)								
Rated output power	3 kW		3.6 kW		5 kW		6 kW	
Max. apparent output power	2 times of rated power, 10 s							
Back-up switch time	<4 ms							
Rated output voltage	1/N/PE, 220 V / 230 V							
Rated frequency	50 Hz / 60 Hz							
Max. continuous output current	13.6 A		16.4 A		22.7 A		27.3 A	
THDv (@linear load)	<2%							
Efficiency								
Max. efficiency	> 97.5%							
EU efficiency	> 96.2%							
Protection								
DC reverse-polarity protection	Yes							
Residual current monitoring	Yes							
Ground fault monitoring	Yes							
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾							
Protection class/Over voltage category	I/II							
General Data								
Dimensions (W*H*D)	TBD							
Weight	TBD							
Topology	High frequency isolation (for battery)							
Operating ambient temperature range	-40 ~ +60°C							
Ingress protection	IP66							
Cooling concept	Natural convection							
Max. operation altitude	4000 m							
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA							
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3							
Features								
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)							
AC connection	Terminal Block							
Display	LED + APP							
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN							

(1) Activation required.



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S6-EH1P8K-L-PRO

New PRO model provides solutions for demanding power scenarios

- Generator connectivity with multiple input methods and automatic generator On/Off control
- Automatic UPS switching
- 10 second 200% surge power backup overload capability
- Supports 1ph and 3ph flexible connection with max 48kW in parallel
- Up to 190A max charge/discharge current
- 6 customisable charge/discharge time settings
- Compatible with lead-acid and lithium batteries, with multiple battery protection features
- Supports peak shaving control in both “self-use”and “generator” mode

DATASHEET

S6-EH1P8K-L-PRO

Models	8K
Input DC (PV side)	
Recommended max. PV power	12.8 kW
Max. input voltage	600 V
Rated voltage	330 V
Start-up voltage	90 V
MPPT voltage range	90-520 V
Max. input current	32 A / 20 A
Max. short circuit current	36 A / 30 A
MPPT number/Max. input strings number	2/4
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40-60 V
Max. charge / discharge power	8 kW
Max. charge / discharge current	190 A
Communication	CAN/RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8.8 kVA
Operation phase	1/N/PE
Rated grid voltage	220 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	36.4 A / 34.8 A
Max. output current	40 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<2%
Input AC (Grid side)	
Input voltage range	187-253 V
Max. input current	50 A
Frequency range	45-55 Hz / 55-65 Hz
Output AC (Back-up)	
Rated output power	8 kW
Max. apparent output power	2 times of rated power, 10 s
Back-up switch time	<4 ms
Rated output voltage	1/N/PE, 220 V / 230 V
Rated frequency	50 Hz / 60 Hz
Max. continuous output current	36.4 A
THDv (@linear load)	<2%
Efficiency	
Max. efficiency	> 97.5%
EU efficiency	> 96.2%
Protection	
DC reverse-polarity protection	Yes
Residual current monitoring	Yes
Ground fault monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Protection class/Over voltage category	I/II
General Data	
Dimensions (W*H*D)	TBD
Weight	TBD
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-40 ~ +60°C
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	NRS 097-2-1, IEC 61116, IEC 60068, IEC 61683, EN 50530, MEA, PEA
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3
Features	
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)
AC connection	Terminal Block
Display	LED + APP
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN

(1) Activation required.