

## ESI 3-6K-S1

5 / 6 KW



SINGLE-PHASE DUAL MPPT

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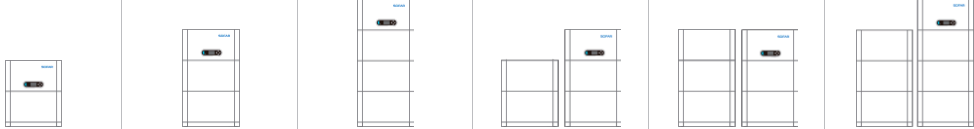
### Product advantages

- Modular and integrated design for easy transportation and installation
- Maximal battery energy with pack optimization
- Flexible battery capacity expansion
- Extremely low battery self-consumption in sleep mode
- User-friendly one-button battery operation
- Switchover time to critical loads less than 10 ms
- Compatible with high current PV panels



## Model

### System Parameters

System Schematic						
Inverter Module	ESI 5/6K-S1					
Number of Inverter Modules	1					
Battery Module	BTS 5K					
Number of Battery Modules	1	2	3	4	5	6
Battery Total Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
IP Rating	IP65					
Operating Temperature [2]	-10°C~+50°C					
Allowable Relative Humidity Range	5%-95%					
Max. Operating Altitude [3]	4000m					
Weight	74.5kg	125.5kg	176.5kg	228.5kg	279.5kg	330.5kg
Dimension (W*H*D)[4]	708*890*170mm	708*1310*170mm	708*1730*170mm	708*1310*170mm 708*900*170mm	708*1310*170mm 708*1320*170mm	708*1730*170mm 708*1320*170mm
Base Dimension(W*H*D)	620*60*170 mm (floor installation), 620*310*170 mm (wall-mounted installation)					
Display	LCD & APP					
communication	RS485/CAN/Wi-Fi. Optional: Ethernet/4G					
Product Ordering Model	[ESI 5/6K-S1 Inverter Module] + N * [BTS 5K Battery Module]					
Inverter Module	ESI 5K-S1-A			ESI 6K-S1		
<b>PV Input</b>						
Recommended Max.PV Power	7500Wp			9000Wp		
Max. Input Voltage	550 Vd.c.					
Start-up Voltage	100 Vd.c.					
Rated Input Voltage	360 Vd.c.					
MPPT Voltage Range	85-520 Vd.c.					
Number of MPPT Trackers	1/1					
Max. Input Current	16/16 A					
Max. Isc	22.5/22.5 A					
<b>Battery</b>						
Rated Voltage Range	400 Vd.c.					
Max. charging/discharging current	20 A					
<b>AC Input(Grid)</b>						
Rated Input Voltage	L+N+PE,220/230/240 Va.c.					
Rated Input Frequency	50/60 Hz					
Max. Input Current	45.5/43.5/41.7 A			54.5/52.2/50.0 A		
<b>Inverter Module</b>						
Rated Output Voltage	L+N+PE,220/230/240 Va.c.					
Rated Output Frequency	50/60 Hz					
Rated Output Power	5 kW			6 kW		
Max.Apparent Power	5 kVA			6 kVA		
Peak Output Apparent Power [4]	7500VA, 60s			9000VA, 60s		
Switching time	10 ms default					
Dimension (W*H*D)	708*410*170 mm					
Weight	22.5 kg					
<b>Battery Module</b>						
Battery Type	LFP					
Battery Module Energy	5.12 kWh					
Rated Power	2.5 kW					
Topology	Isolation					
Dimension (W*H*D)	708*420*170 mm					
Weight	50 kg					
Standard	EN 61000-6-2, EN 61000-6-3, IEC 62109-1/2, IEC 62040-1, UN38.3, IEC62619, AS/NZS 4777					

[1] Test conditions: 0.2C charging/discharging at 25°C, 100%DOD [2] Please refer to the temperature derating curve.  
 [3] If the altitude is >2000 m, derating is required. Please refer to the derating curve. [4] Dimensions of the inverter and batteries.  
 \* All specifications are subject to change without notice.