

Energy Storage System

4-12kW / 9-30kWh HV

Electrical Characteristics（Inverter）

Module Type	SKT4KTL3H	SKT5KTL3H	SKT6KTL3H	SKT8KTL3H	SKT10KTL3H	SKT12KTL3H
Input (DC)						
Max DC power	6000W	7500W	9000W	12000W	15000W	15000W
Max DC voltage	1000Vd.c.					
MPPT voltage range	200...850Vd.c.					
Max input current/per string	13Ax2					
Number of MPP trackers	2					
Number of input string	2					
Battery Input						
Battery Type	Li-ion					
Battery voltage range	130~700V					
Maximum charge/discharge current	25/25A					
Charge strategy for Li-ion Battery	Self-adaptation to BMS					
Output (AC)						
AC nominal power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max AC apparent power	5000VA	5500VA	7000VA	8800VA	11000VA	13200VA
Max output current	8A	10A	12A	15A	17A	20A
Nominal AC output	50/60Hz ; 400/350V					
AC output range	45/55Hz ; 280~490Vac(Adj)					
Power factor	0.8leading...0.8laging					
Harmonics factor	<3%					
Grid type	3W/N/PE					
Three-phase unbalance output	0~100%	0~100%	0~100%	0~100%	0~100%	0~80%
AC Output (Back-up)						
Max AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	10000VA
Norminal Output Voltage	400/380V					

Norminal Output Freqency	50/60Hz					
Output THDV (@Liuear Load)	<3%					
Efficiency						
Maximum conversion efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Max battery to AC Efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
General Parameters						
Dimension (W/H/D)	548*444*184mm					
Weight	30 kg					
Operating temperature range ºC	-25°C...+60°C					
Degree of protection	IP65					
Cooling concept	Natural convection					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%, non-condensing					
Communication	Standard WiFi;GPRS/LAN(optional)					
Warranty	Standard 5 years; 7/10 years optional					
BMS communication	CAN/RS485					
Meter communication	R485					
Certificates and Approvals	CQC,VDE-AR-N4105,IEC61727,IEC62116,VDE0124-AR-NO124,EN50549,IEC62109,G98,G99					

Electrical Characteristics（Battery）

Module Type	LFP 9kWh/HV	LFP 12kWh/HV	LFP 15kWh/HV	LFP 18kWh/HV	LFP 21kWh/HV	LFP 24kWh/HV	LFP 27kWh/HV	LFP 30kWh/HV
Usable Energy	8.64kWh	11.52kWh	14.40kWh	17.28kWh	20.16kWh	23.04kWh	25.92kWh	28.80kWh
Battery Module	LFP 3000 / HV : 57.6V 50Ah							
Number of Modules	3	4	5	6	7	8	9	10
Nominal Voltage	172.8V	230.4V	288V	345.6V	403.2V	460.8V	518.4V	576V
Operating Voltage Ranges	135-197.1V	180-262.8V	225-328.5V	270-394.2V	315-459.9V	360-525.6V	405-591.3V	450-657V
Nominal Dis-/Charge Current	50 / 25A							
Max. Charge Voltage	197.1V	262.8V	328.5V	394.2V	459.9V	525.6V	591.3V	657V
Weight	102kg	131kg	160kg	189kg	218kg	247kg	276kg	305kg
Dimension(mm)	670*330*697	670*330*855	670*330*1013	670*330*1171	670*330*1329	670*330*1487	670*330*1645	670*330*1803
Safety	CE,UN38.3,IEC62619,IEC63056,IEC62477							
Max.recommended DOD	90%							
Operating Condition	Indoor or outdoor							
Operating Temperature Charge	0~55℃							
Operating Temperature Discharge	-20~55℃							
Humidity	0~95% (non-condensing)							
Pollution Degree	3							
Over Voltage Category	II							
Cooling Type	Natural cooling							
Case Material	Metal+Plastic							
IP Rating	IP 54							
Protective Class	I							
Warranty	10 years							
Communication	CAN/WIFI							
Protection Mode	Triple hardware protection							
Battery Protection	Over-current/Over-voltage/Short-circuit/Under-voltage							
Hazardous Material Classification	9							

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