

Solar Mate

Solar Mate directly connects the battery to the solar system on the PV side, without installing an additional energy storage inverter or replacing the current solar inverter. In addition, no component replacement or AC side wiring changes are required, saving the waiting time for grid connection permit application, which is very friendly to families with installed solar systems.

Compared with traditional AC coupling systems, it saves installation time and improves system efficiency, allowing users to achieve energy self-sufficiency in a simple and cost-effective way.



Easy installation



No need to wait for grid connection permit



Can be installed indoors or outdoors (IP65)



High compatibility (supports mainstream single-phase/three-phase inverters)



Anti-backflow protection & load monitoring



One-click configuration

Technical Parameters

Model	D12K-PVC	D10K-PVC	D8K-PVC	D6K-PVC	D5K-PVC
Battery Input Data					
Battery Type	Lithium battery				
Battery Voltage Range (V)	160-750	160-750	160-750	80-490	80-490
Max.Charge/Discharge Current(A)	40/40				
Max.Charge/Discharge Power(W)	13200	11000	8800	6600	5500
PV String Input Data					
Max.PV Input Power (W)	19200	16000	12800	9600	8000
Max.PV Input Voltage (V)	1000	1000	1000	600	600
MPPT Range(V)	200-850	200-850	80-480	80-480	80-480
SPS Start-up Voltage (V)	150	150	150	60	60
MPPT Range For Nominal Power (V)	350-850	350-850	350-850	230-480	230-480
Nominal PV Input Voltage (V)	620	620	350	350	350
Max.Input Current(A)	32/16	32/16	32/16	16/16	16/16
Max.Short Current(A)	42/21	42/21	42/21	21/21	21/21
No.of MPP Trackers	2				
Strings per MPP Tracker	2/1		1/1		
DC Output Data					
Max.Output Power (W)	12000	10000	8000	6000	5000
MAX.Output Voltage (V)	1000	1000	1000	600	600
Nominal Output Voltage (V)	600	600	600	300	300
Nominal Output Current(A)	10/10	8.3/8.3	6.8/6.8	10/10	8.5/8.5
No.of Output Trackers	2				
Strings per MPP Tracker	2/1		1/1		
Efficiency					
MPPT efficiency	0.99	0.99	0.99	0.99	0.99
Max. efficiency	0.982	0.982	0.982	0.983	0.983
Protection					
PV AFCI	Optional				
PV Reverse Protection	Integrated				
Battery Reverse Protection	Integrated				
Over Current/Voltage Protection	Integrated				
DC Switch(PV)	Integrated				
Surge Protection	DC Type II				
Communication Interface					
Battery BMS	CAN				
EMS	RS485				
Meter	RS485				
Remote Shut Down	YES(DI)				
IO IN	YES(DI)				
Dry-Point	YES(DO)				
Cloud	Wi-Fi,Bluetooth				
Display/User Interface	LED/APP/LCD				
General Data					
Operating Temperature Range(C)	-25-60				
Relative Humidity(%)	0-95%				
Operating Altitude(m)	≤3000				
Cooling	Nature Cooling				
Noise(dB)	<35				
Weight(kg)	TBD				
Size(W/H/D)(mm)	470*400*185				
Installation	Wall-Mounted				
Protection Degree	IP65(can outdoor use)				
Certifications&Standards					
Safety Regulation	IEC62109-1				
EMC	EN61000-6-1,EN61000-6-2,EN610006-3,EN61000-6-4,EN62920, EN55011,EN61000-3-2,EN61000-3-3,EN61000-3-12,ENIEC61000				