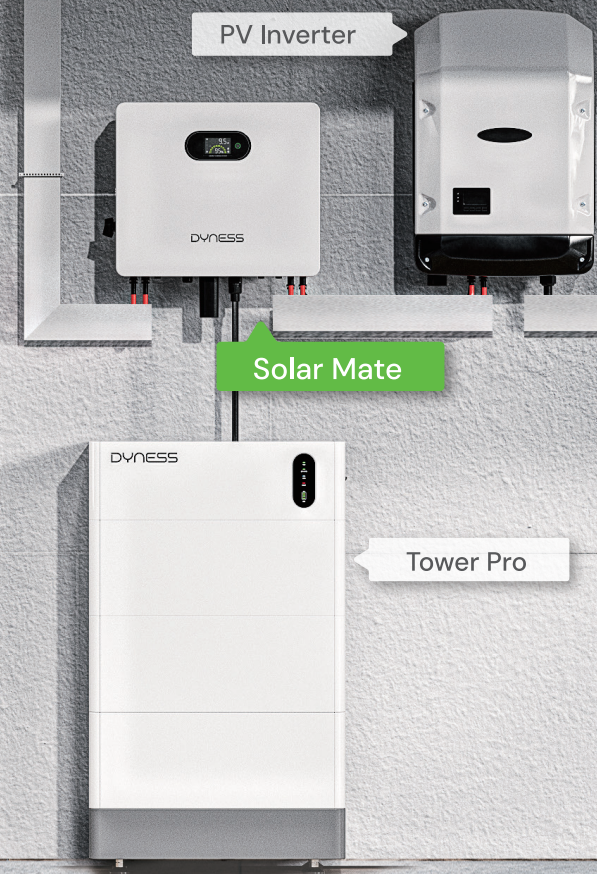


Solar Mate

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.



Easy installation

No need to wait for grid connection permit



High Compatibility

supports mainstream single-phase/three-phase inverters



Ultra Safe

Anti-backflow protection & PV AFCI (optional)



Smart O&M

One-click configuration & real-time load monitoring



IP65 Protection

Fearless of outdoor installation, strong environmental adaptability

Model	D12K-PVC	D6K-PVC
Battery Input Data		
Battery Type	LiFePO ₄	
Battery Voltage Range (V)	160-750	80-490
Max.Charge/Discharge Current (A)	40/40	
Max.Charge/Discharge Power (W)	13200	6600
PV String Input Data		
Max.PV Input Power (W)	19200	9600
Max.PV Input Voltage (V)	1000	600
MPPT Range (V)	200-850	80-480
SPS Start-up Voltage (V)	150	60
MPPT Range For Nominal Power (V)	350-850	230-480
Nominal PV Input Voltage (V)	620	350
Max.Input Current (A)	32/16	16/16
Max.Short Current (A)	42/21	21/21
No.of MPP Trackers	2	
Strings per MPP Tracker	2/1	1/1
DC Output Data		
Max.Output Power (W)	12000	6000
Max.Output Voltage (V)	1000	600
Nominal Output Voltage (V)	600	300
Nominal.Output Currrent (A)	10/10	10/10
No.of Output Trackers	2	
Strings per MPP Tracker	2/1	1/1
Efficiency		
MPPT efficiency	0.99	0.99
Max.efficiency	0.982	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 Typell	
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	

