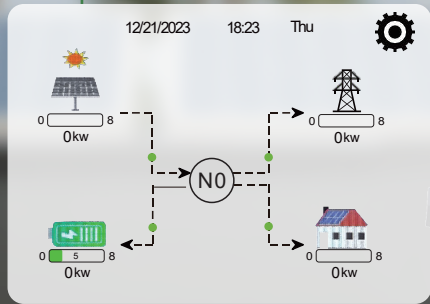
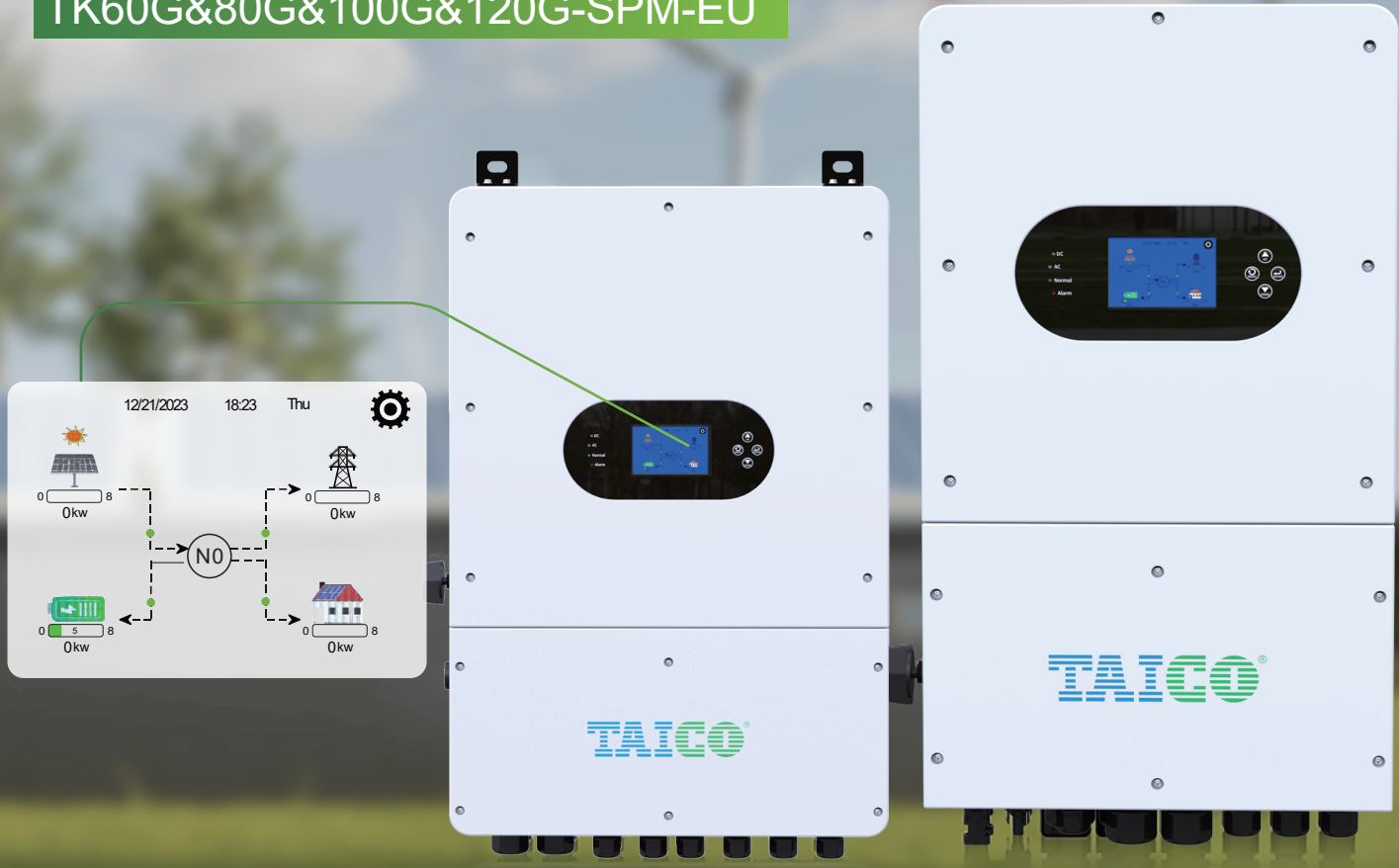




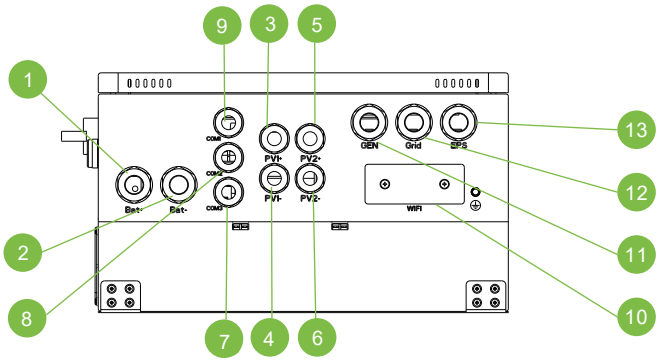
SINGLE PHASE HYBRID INVERTER

TK60G&80G&100G&120G-SPM-EU



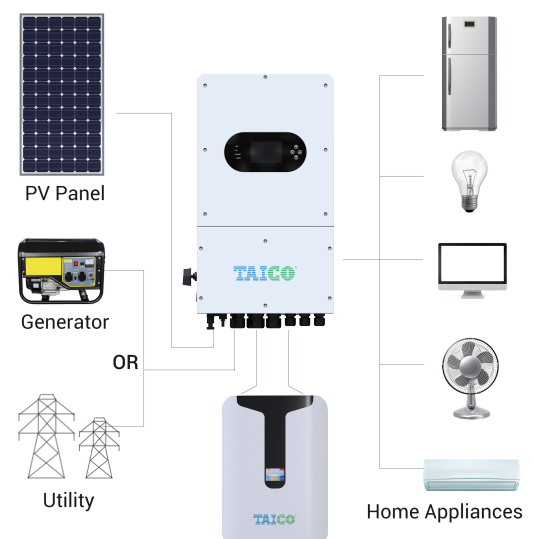
- Support storing energy from diesel generator
- 6 time periods for battery charging/discharging
- Max. charging/discharging current 190A
- Max. 16 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- AC Coupling to retrofit existing solar system
- Colorful touch LCD, IP65 protection degree

PRODUCT CHARACTERISTICS



- 1. Bat+
- 2. Bat-
- 3. PV1+
- 4. PV1-
- 5. PV2+
- 6. PV2-
- 7. COM3
- 8. COM2
- 9. COM1
- 10. WIFI
- 11. GEN
- 12. Grid
- 13. EPS

BASIC SYSTEM ARCHITECTURE



Function Parameter

Model	TK60G-SPM-EU	TK80G-SPM-EU	TK100G-SPM-EU	TK120G-SPM-EU
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	370(125~500)	370(125~500)	370(125~500)	370(125~500)
Start-up Voltage (V)	125	125	125	125
MPPT Voltage Range (V)	150-430	150-430	150-425	150-425
Full Load MPPT Voltage Range (V)	300-430	200-430	200-425	200-425
Max. DC Input Current (A)	20+20	26+26	26+26+26	26+26+26
Max.DC Short Circuit Current (A)	22+22	34+34	34+34	34+34
No.of MPPT Trackers	2	2	3	3
No.of Strings per MPPT Tracker	1+1	2+2	2+2+2	2+2+2
AC Output Data				
Rated AC Output Power (W)	6000	8000	10000	12000
Max AC Output Power (W)	6600	8800	11000	13200
AC Output Rated Current (A)	27.3	36.4	43.5	52.2
Max AC Output Current (A)	30	40	47.8	57.4
Max.Continuous AC Passthrough (A)	40	50	60	60
Peak Power (off grid)	2 tims of rated power, 10 S			
Power Factor	0.8 leading-0.8 lagging			
AC Output Frequency and Voltage	50/60Hz;L/N/PE220/230Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THDi)	<3%(ofnominal power)			
DC Current Injection	<0.5%(Rated Current)			
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60	40~60	40~60	40~60
Max.Charging Current (A)	135	190	220	250
Max.Discharging Current(A)	135	190	220	250
External Temperature Sensor	Yes	Yes	Yes	Yes
Charging Curve	3 Stages/Equalization	3 Stages/Equalization	3 Stages/Equalization	3 Stages/Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	99.90%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity Protection	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Surge Protection	DC Type II/AC Typel II			
Over Voltage Protection	Yes			
Certifications and Standards				
Over Voltage Protection	IEC61727,EN50549-1			
Over Voltage Protection	IEC/EN 61000-6- /2/4,IEC/EN 62109-1,IEC/EN 62109-2			
General Data				
Operating Temperature Range (c)	-40-60°C,>45°C Derating			
Cooling	Smart Cooling			
Noise(dB)	<30 dB			
Communication with BMS	RS485;CAN			
Monitoring mode	WIFI,APP			
Net weight/Gross weight(kg)	22/25	30/35	37/41	
Machine size(WxHxD mm)	618.5x330x252mm	630x413x258mm	710x450x248mm	
Package size(WxHxD mm)	700x460x380mm	760x540x400mm	770x560x400mm	
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			