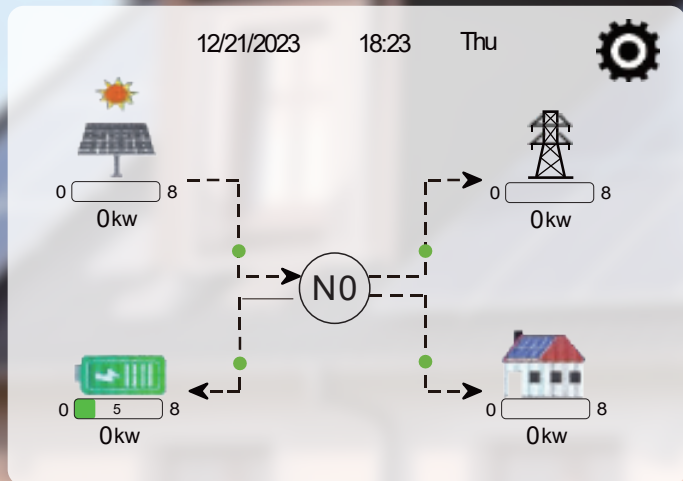




THREE PHASE HYBRID INVERTER

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



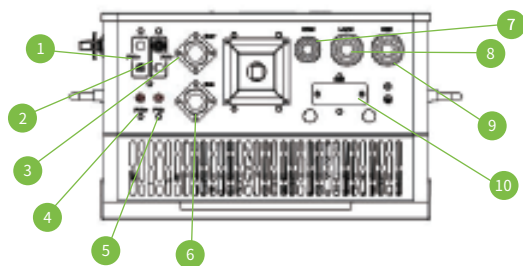
LCD DISPLAY ICONS



- 100% Three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power
- Max. 10 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- 48V low voltage battery, transformer isolation design

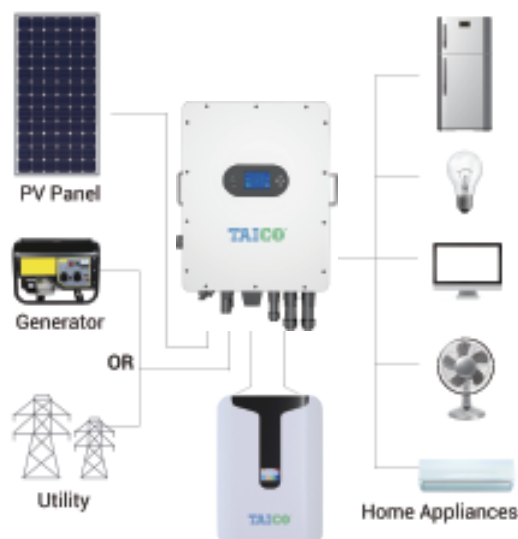
- Support storing energy from diesel generator
- 6 time periods for battery charging/discharging
- Max. charging/discharging current of 240A
- AC coupling to retrofit existing solar system

PRODUCT CHARACTERISTICS



1. PV1+ 2. PV1- 3. Bat+ 4. PV2+ 5. PV2-
6. Bat- 7. Grid 8. LOAD 9. Gen 10. WiFi Interface

BASIC SYSTEM ARCHITECTURE



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Function Parameter

Model	TK60G-TPM-EU	TK80G-TPM-EU	TK100G-TPM-EU	TK120G-TPM-EU
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	550 (160-800)			
Start-up Voltage (V)	160			
MPPT Voltage Range (V)	200-650			
Full Load MPPT Voltage Range (V)	350-650			
Max. DC Input Current (A)	13+13		26+13	
Max.DC Short Circuit Current (A)	17+17		34+17	
No.of MPPT Trackers	2			
No.of Strings per MPPT Tracker	1+1		2+1	
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)	9.1	12.1	16.7	18.2
Max AC Output Current (A)	10	13.4	18.4	20
MaxOutputshortcircuitcurrent(A)	75			
Max. Continuous AC Passthrough(A)	45			
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; 3L/N/PE 220/380Vac, 230/400Vac			
Grid Type	Three Phase			
Total Harmonic Distortion (THDi)	<3%(of nominal power)			
DC Current Injection	<0.5% In			
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60			
Max.Charging Current (A)	120	160	220	240
Max.Discharging Current(A)	120	160	200	240
External Temperature Sensor	Yes			
Charging Curve	3 Stages/Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	97.0%			
MPPT Efficiency	99.0%			
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 III / AC Type III			
Over Voltage Protection	DC Type III / AC Type III			
Certifications and Standards				
Over Voltage Protection	IEC61727/62116,EN50549-1			
Over Voltage Protection	IEC/EN 61000-6-1/2/3/4, 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)	≤50 dB			
Communication with BMS	RS485;CAN			
Monitoring mode	Wi-Fi+APP			
Net weight/Gross weight(kg)	37.5			
Machine size(WxHxD mm)	702×422×281 (Excluding Connectors and Brackets)			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			