

GPG SCE5/6/8/10KTL-T/EU

GPG Residential Storage Inverter Three Phase Residential Hybrid PCS



High Yield

- Max efficiency 98.4%, Battery efficiency 98%
- Max. Charge/Discharge Current 50A
- Reasonable energy control to increase the proportion of spontaneous use

High Reliability

- With BMS system to ensure high battery life
- Natural cooling design

Intelligent Maintenance

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	GPG SCE5KTL-T/EU	GPG SCE6KTL-T/EU	GPG SCE8KTL-T/EU	GPG SCE10KTL-T/EU
Efficiency				
Max. Efficiency(PV to Grid)	98.2%	98.2%	98.4%	98.4%
Max. Efficiency(Battery to Load)	97.2%	97.2%	97.9%	97.9%
Input (PV)				
Max. Input Voltage	1000V	1000V	1000V	1000V
Max. Input Power	8000W	9000W	12000W	15000W
Rated Input Voltage	650V	650V	650V	650V
Max. Input Current	15A/15A	15A/15A	20A/30A	20A/30A
Max.Short Circuit Current	20A/20A	20A/20A	30A/40A	30A/40A
Start Input Voltage	180V	180V	180V	180V
MPPT Operating Voltage Range	160V-950V	160V-950V	160V-950V	160V-950V
Max. Number of PV Strings	2	2	2	2
No. of MPPTs	4	4	6	6
Input(Battery)				
Battery Type	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid
Nominal Battery Voltage	200V-600V	200V-600V	200V-600V	200V-600V
Battery Voltage Range	150V-600V	150V-600V	150V-600V	150V-600V
Max. Charge/Discharge Current	25A/25A	25A/25A	50A/50A	50A/50A
Lithium-ion Battery Charge Curve	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS
Lead-Acid Battery Charge Curve	3 stages	3 stages	3 stages	3 stages
Output(Grid)				
Rated AC Active Power	5000W	6000W	8000W	10000W
Max.Ac Active power	5500VA	6600VA	8800VA	10000VA
Rated AC Voltage	380V / 400V	380V / 400V	380V / 400V	380V / 400V
AC Voltage Range	277V-520V (Adjustable)	277V-520V (Adjustable)	277V-520V (Adjustable)	277V-520V (Adjustable)
Rated Grid Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)	45Hz-55Hz/55Hz-65Hz (Adjustable)	45Hz-55Hz/55Hz-65Hz (Adjustable)	45Hz-55Hz/55Hz-65Hz (Adjustable)
Max. AC Current Output to Utility Grid (A)	3*8.3A	3*10A	3*13.3A	3*15.2A
THDI	<3% (Rated Power)	<3% (Rated Power)	<3% (Rated Power)	<3% (Rated Power)
Power Factor	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
Output(EPS)				
Nominal Output Power	5000W	6000W	8000W	10000W
Nominal Output Voltage	380V / 400V	380V / 400V	380V / 400V	380V / 400V
Nominal Output Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
THDV	<3% (R Load), 5% (RCD Load)	<3% (R Load), 5% (RCD Load)	<3% (R Load), 5% (RCD Load)	<3% (R Load), 5% (RCD Load)
Switching Time(Typical)	10ms (typ) / 20ms (max)	10ms (typ) / 20ms (max)	10ms (typ) / 20ms (max)	10ms (typ) / 20ms (max)
Protection				
DC switch	Support	Support	Support	Support
Anti-islanding protection	Support	Support	Support	Support
AC overcurrent protection	Support	Support	Support	Support
AC short circuit protection	Support	Support	Support	Support
DC reverse connection	Support	Support	Support	Support
Surge Arrester	DC Type II, AC Type II	DC Type II, AC Type II	DC Type II, AC Type II	DC Type II, AC Type II
Insulation detection	Support	Support	Support	Support
Leakage current protection	Support	Support	Support	Support
Anti-islanding protection	Support	Support	Support	Support
General				
IP Rating	IP65	IP65	IP65	IP65
Cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating Temperature Range	-25°C~45°C	-25°C~45°C	-25°C~45°C	-25°C~45°C
Relative Humidity Range	0-100%	0-100%	0-100%	0-100%
Max. Operating Altitude	4000m	4000m	4000m	4000m
Noise(Typical)	30dB	30dB	30dB	30dB
Dimensions (W*H*D)	530mm*550mm*212mm	530mm*550mm*212mm	530mm*550mm*212mm	530mm*550mm*212mm
Weight	26Kg	26Kg	29Kg	29Kg
HMI & COM				
Display	LED+APP (Bluetooth)	LED+APP (Bluetooth)	LED+APP (Bluetooth)	LED+APP (Bluetooth)
Communication	BMS (CAN/RS485), Optional: WiFi/ GPRS/4G/Ethernet, DI (DRM/ RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)	BMS (CAN/RS485), Optional: WiFi/ GPRS/4G/Ethernet, DI (DRM/ RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)	BMS (CAN/RS485), Optional: WiFi/ GPRS/4G/Ethernet, DI (DRM/ RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)	BMS (CAN/RS485), Optional: WiFi/ GPRS/4G/Ethernet, DI (DRM/ RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)
Certification				
Safety	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98
Grid Code	IEC62109-1&2, IEC62040-1, IEC62477-1	IEC62109-1&2, IEC62040-1, IEC62477-1	IEC62109-1&2, IEC62040-1, IEC62477-1	IEC62109-1&2, IEC62040-1, IEC62477-1
Warranty	5 Years / 10 Years (Optional)	5 Years / 10 Years (Optional)	5 Years / 10 Years (Optional)	5 Years / 10 Years (Optional)