



GPG SCE3.6/4.6/5/6KTL-EU

GPG Residential Storage Inverter Single Phase Residential Hybrid PCS



High Yield

- Max efficiency 97.3%, Battery efficiency 98%
- Convenient to retrofit existing grid-connected systems 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 SCE3.6KTL-EU	GPG SCE4.6KTL-EU	GPG SCE5KTL-EU	GPG SCE6KTL-EU
Efficiency				
Max. Efficiency(PV to Grid)	97.3%	97.3%	97.3%	97.3%
Max. Efficiency(Battery to Load)	94.0%	94.0%	94.0%	94.0%
Input (PV)				
Max. Input Voltage	550V	550V	550V	550V
Max. Input Power	4500W	9000W	9000W	9000W
Rated Input Voltage	360V	360V	360V	360V
Max. Input Current	2*15A	2*15A	2*15A	2*15A
Max.Short Circuit Current	2*20A	2*20A	2*20A	2*20A
Start Input Voltage	90V	90V	90V	90V
MPPT Operating Voltage Range	70V-540V	70V-540V	70V-540V	70V-540V
Max. Number of PV Strings	2	2	2	2
No. of MPPTs	2	2	2	2
Input(Battery)				
Battery Type	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid
Nominal Battery Voltage	48V	48V	48V	48V
Battery Voltage Range	40-60V	40-60V	40-60V	40-60V
Max. Charge/Discharge Current	60A	120A	120A	120A
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	3680W	4600W	5000W	6000W
Max.Ac Active power	3680W	4600W	5500W	6000W
Rated AC Voltage	220V	220V	220V	220V
AC Voltage Range ①	180V-275V(Adjustable)	180V-275V(Adjustable)	180V-275V(Adjustable)	180V-275V(Adjustable)
Rated Grid Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Grid Frequency Range ②	45Hz-65Hz(Adjustable)	45Hz-65Hz(Adjustable)	45Hz-65Hz(Adjustable)	45Hz-65Hz(Adjustable)
Max. AC Current Output to Utility Grid (A)	18A	22A	25A	27.2A
THDI	<3%(Rated Power)	<3%(Rated Power)	<3%(Rated Power)	<3%(Rated Power)
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)
Output(EPS)				
Nominal Output Power	3000VA	4600VA	5000VA	6000VA
Nominal Output Voltage	230V	230V	230V	230V
Nominal Output Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
THDV	<3% @100% R Load	<3% @100% R Load	<3% @100% R Load	<3% @100% R Load
Switching Time(Typical)	10ms	10ms	10ms	10ms
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	AC Type III,DC Type III(optional)	AC Type III,DC Type III(optional)	AC Type III,DC Type III(optional)	AC Type III,DC Type III(optional)
Insulation detection	Support	Support	Support	Support
Leakage current protection	Support	Support	Support	Support
Anti-islanding protection	Support	Support	Support	Support
General				
Topology	High Frequency Isolation	High Frequency Isolation	High Frequency Isolation	High Frequency Isolation
IP Rating	IP65	IP65	IP65	IP65
Cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating Temperature Range	-25°C-60°C	-25°C-60°C	-25°C-60°C	-25°C-60°C
Relative Humidity Range	0-100%	0-100%	0-100%	0-100%
Max. Operating Altitude	4000m	4000m	4000m	4000m
Noise(Typical)	35dB	35dB	35dB	35dB
Dimensions (W*H*D)	515*500*175mm	515*500*175mm	515*500*175mm	515*500*175mm
Weight	25Kg	25Kg	25Kg	25Kg
HMI & COM				
Display	LED&APP	LED&APP	LED&APP	LED&APP
Communication	RS485,CAN, WIFI/GPRS/4G(optional)	RS485,CAN, WIFI/GPRS/4G(optional)	RS485,CAN, WIFI/GPRS/4G(optional)	RS485,CAN, WIFI/GPRS/4G(optional)
Certification				
Safety	IEC62109-1&2, IEC62040-1 AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549	IEC62109-1&2, IEC62040-1 AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549	IEC62109-1&2, IEC62040-1 AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549	IEC62109-1&2, IEC62040-1 AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549
Grid Code	AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549	AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549	AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549	AS/NZS 4777.2:2015, IEC 61727/62116, VDE4105-AR-N, EN 50549
Warranty	5 Years/10 Years(Optional)	5 Years/10 Years(Optional)	5 Years/10 Years(Optional)	5 Years/10 Years(Optional)