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ASIAN POWER DEVICES INC.

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PrimeVOLT ASIAN POWER DEVICES FOCUS ON RENEWABLE ENERGY TO A GREENER FUTURE www.primevolt.com.tw

COMPANY MILESTONES

Certified to ISO 13485 1st plant (YM) 2nd plant (DK) established in established in and labeled as CQC type A enterprise Shenzhen Shenzhen

APD Group founded in Taipei

About

PrimeVOLT

Headquartered in Taiwan, PrimeVolt is

the renewable energy business division of the Asian Power Device Group, specialized in PV inverter design and manufacturing. It benefits from its strong R&D

capabilities. By cultivating Taiwan's market over the years, PrimeVOLT has become the local inverter manufacturer who provides the most reliable products with high quality and performance, as well as offers professional services through localized support. PrimeVOLT aims to create a sustainable green future with you by offering competitive inverter

Renewable Energy Business set up

Acquired PrimeVOLT to accelerate the renewable energy business growth

RESIDENTIAL STORAGE SOLUTION

PrimeVOLT debuted the new AC Coupled inverter, Hybrid inverter as well as other new models. The new energy storage household products feature powerful charge controlling capabilities up to 100A, and the maximum input power up to 9,000W, which can greatly increase the amount of self-generation electricity and smartly prioritize the self-consumption of stored energy.

ON-GRID PV INVERTER

PrimeVOLT's on-grid PV inverter products include 2~125KW series. They can be applied to household, commercial and industrial power stations, suburban and large ground power stations. In response to the demand of increasing PV module current, PrimeVOLT upgraded the string current of all inverters to make sure the products can flawlessly adapt to 500W+ high power module applications.

Increase the manufacturing capacity to 3GW in Shenzhen and Taipei

UN HELVE

JOHN STREET, THE



New generation of

grid-tie PV inverters

launched



Certified as China's

"National High-tech

Enterprise"







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Energy Storage System launched 1GW inverters delivered annually

U.S model product launched New Pingshan factory established to reach 10GW manufacturing capacity

SMART CLOUD MONITORING SYSTEM

PrimeVOLT smart cloud monitoring system provides a variety of wired or wireless access methods, as well as two kinds of clients-smart phone APP (PVTouch) and PC Internet browser, suitable for residential/commercial/ storage applications. Based on cloud services in Europe, America, Singapore and China, customers can monitor the operation of photovoltaic power plant systems anytime and anywhere.







solutions.

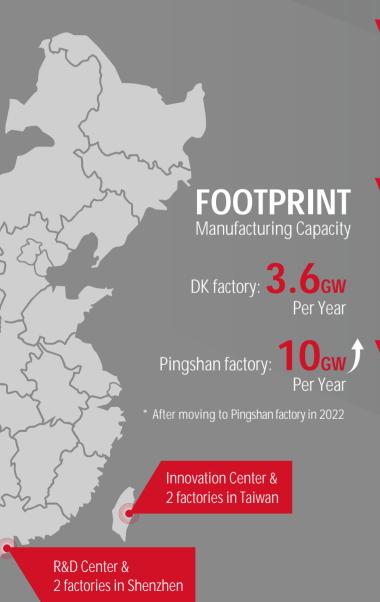
OUR COMPETITIVE ADVANTAGES



APD Group - The leader in power electronics and renewable energy technologies

With around thirty years of cultivating its business in the power industry, APD Group has become a technological leader in specific fields of applications thanks to its capabilities in high-quality and flexible production and designs.

APD Group is committed to continual innovation and sustainable operations as it further cements its place as a leader in the global power electronics and renewable energy markets and gives people the high-efficiency, energy-saving technology they need to achieve a greener future.



Strong R&D strength

- The pioneers and practitioners of the string inverter
 Dual research centers in both Taipei and Shenzhen
 Integrated Product Development (IPD) process
 DFMEA & PFMEA-guaranteed product reliability



Comprehensive Quality Management

- ISO13485 for medical equipment level quality
- system

 Comprehensive QC and GP system throughout product development and production processes

 Endorsed by the leading industry players



Advanced Manufacturing Capabilities

- Dual manufacturing bases in both Taipei and
- Full industry process ranging from PCBA manufacturing to burn-in tests
 Highly-automated production equipment and flexible production line



ON-GRID INVERTER RESIDENTIAL USE

SINGLE PHASE





PV 2/3/3.6KTL-S1/G2P

PV 4/5/6KTL-D1/G2P





- ▶ PV 7/8/10KTL-D1P
- PV 5/6/8/10/12/15KTL-D3/G2/
- ► PV 10/15KTL-D3/G2P
- PV 17/20/22/25KTL-D3/G2

ON-GRID INVERTER I &C USE

THREE PHASE





▶ PV 50/60KTL

► PV 110KTL-M3/125KTL-MH3

ENERGY STORAGE SYSTEM

SINGLE PHASE

THREE PHASE



- PV 4.6/5/6KAC
- ▶ PV 4.6/5/6KHB-60 PV 4.6/5/6KHB-120

▶ PV 5/6/8/10KHB-D3





SINGLE PHASE & SINGLE MPPT

PV 2/3/3.6KTL-S1/G2P

Application: Family Use





SUPERIOR EFFICIENCY

- Maximum efficiency 97.8%
- String current 15A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export power control

Model	PV 2KTL-S1/G2P	PV 3KTL-S1/G2P	PV 3K6TL-S1/G2P			
Efficiency						
Max. Efficiency	97.5%	97.8%	97.8%			
European Efficiency	96.5%	96.8%	96.8%			
Input (PV)						
Max. Input Voltage		500V				
Max. PV configuration (STC)		150%				
Rated Input Voltage		360V				
Max. Input Current		15A				
Max.Short Circuit Current		20A				
Start Input Voltage		70V				
MPPT Operating Voltage Range		50V-490V				
Max. Number of PV Strings		1				
No. of MPPTs		1				
Output (Grid)						
Rated AC Active Power	2,000W	3,000W	3,600W			
Rated Apparent Power	2,000VA	3,000VA	3,600VA			
Max. AC Apparent Power	2,200VA	3,300VA	3,600VA			
Max. AC Active Power (PF=1)	2,200W	3,300W	3,600W			
Max. AC Output Current	10A	15A	16A			
Rated AC Voltage		220V/230V, L+N+PE				
AC Voltage Range ①		160V-300V (Adjustable)				
Rated Grid Frequency		50Hz / 60Hz				
Grid Frequency Range②	4,1	45Hz-55Hz / 55Hz-65Hz (Adjustable)				
THDI		<3% (Rated Power)				
DC Current Injection		<0.5%(nated 1 ower)				
Power Factor	>0.99	>0.99 Rated power (Adjustable 0.8 LD-0.8 LG)				
Protection						
DC switch		Support				
Anti-islanding protection		Support				
AC overcurrent protection		Support				
AC short circuit protection		Support				
DC reverse connection		Support				
Surge Arrester		DC Type III (Optional) / AC Type III				
Insulation detection		Support				
Leakage current protection		Support				
General						
Topology		Transformerless				
IP Rating		IP65				
Night Self Consumption		<1W				
Cooling		Natural cooling				
Operating Temperature Range		-25°C-60°C				
Relative Humidity Range		0-100%				
Max. Operating Altitude		4000m				
Noise (typical)		30dB				
Dimensions (W*H*D)		320mm*344mm*137mm				
Weight		6.5Kg				
HMI & COM						
Display	W	Wireless & APP+LED, LCD (Optional)				
Communication		Optional: WiFi / GPRS / RS485				
Certification						
Safety		IEC62109-1, IEC62109-2				
Grid Code	DE-AR-N 4105, EN 50549	9-1, CEI 0-21, UNE 206001/2060	002-1, IEC 61727/62116.			
		n°140 2022, IEEE 1547, AS 4777				
Warranty		10 Years				

 $\textbf{Remarks: } \bullet \text{ } \textcircled{1}\textcircled{2} \textbf{The range of output voltage and frequency may vary depending upon different grid codes}.$

SINGLE PHASE & DUAL MPPT

PV 4/5/6KTL-D1/G2P

Application: Family Use





SUPERIOR EFFICIENCY

- Maximum efficiency 98.2%
- String current 15A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- · Remote configuration and upgrade
- Supports export power control

Model	PV 4KTL-D1/G2P	PV 5KTL-D1/G2P	PV 6KTL-D1/G2P			
Efficiency						
Max. Efficiency	98.0%	98.2%	98.2%			
European Efficiency	97.0%	97.3%	97.4%			
Input (PV)						
Max. Input Voltage		550V				
Max. PV configuration (STC)		150%				
Rated Input Voltage		360V				
Max. Input Current		30A (2*15A)				
Max.Short Circuit Current		40A (2*20A)				
Start Input Voltage		90V				
MPPT Operating Voltage Range		70V-540V				
Max. Number of PV Strings		2 (1/1)				
No. of MPPTs		2				
Output (Grid)		۷				
Rated AC Active Power	4,000W	5,000W	4 000///			
			6,000W			
Rated Apparent Power	4,000VA	5,000VA	6,000VA			
Max. AC Apparent Power	4,400VA	5,500VA	6,000VA			
Max. AC Active Power (PF=1)	4,400W	5,500W	6,000W			
Max. AC Output Current	20A	25A	27.3A			
Rated AC Voltage		220V/230V, L+N+PE				
AC Voltage Range①		160V-300V (Adjustable)				
Rated Grid Frequency		50Hz / 60Hz				
Grid Frequency Range②	4.	5Hz-55Hz / 55Hz-65Hz (Adjustab	le)			
THDI		<3% (Rated Power)				
DC Current Injection		<0.5%ln				
Power Factor	>0.99	>0.99 Rated power (Adjustable 0.8 LD-0.8 LG)				
Protection						
DC switch		Support				
Anti-islanding protection		Support				
AC overcurrent protection		Support				
AC short circuit protection		Support				
DC reverse connection		Support				
Surge Arrester		DC Type III (Optional) / AC Type II	I			
Insulation detection		Support				
Leakage current protection		Support				
General						
Topology		Transformerless				
IP Rating		IP65				
Night Self Consumption		<1W				
Cooling		Natural cooling				
Operating Temperature Range		-25°C-60°C				
Relative Humidity Range		0-100%				
Max. Operating Altitude		4000m				
Noise (typical)		30dB				
Dimensions (W*H*D)		300B 350mm*347mm*137mm				
Weight						
		8.5Kg				
HMI & COM	1.6	Mental Applier London B				
Display	Wireless & APP+LED, LCD (Optional)					
Communication		Optional: WiFi / GPRS / RS485				
Certification						
Safety		IEC62109-1, IEC62109-2				
Grid Code		9-1, CEI 0-21, UNE 206001/2060				
	ORDINANCE	n°140 2022, IEEE 1547, AS 4777	, VDE 0126-1			
Warranty		10 Years				

Remarks: • 1)2) The range of output voltage and frequency may vary depending upon different grid codes.

SINGLE PHASE & DUAL MPPT

PV 7/8/10KTL-D1P

Application: Family Use





SUPERIOR EFFICIENCY

- Maximum efficiency 98.2%
- String current 18A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- · Remote configuration and upgrade
- Supports export power control

Model	PV 7KTL-D1P	PV 8KTL-D1P	PV 10KTL-D1P			
Efficiency						
Max. Efficiency	98.2%	98.2%	98.2%			
European Efficiency	97.4%	97.5%	97.6%			
Input (PV)						
Max. Input Voltage		550V / 600V				
Max. PV configuration (STC)		150%				
Rated Input Voltage		360V				
Max. Input Current	36A (2*18A)	50A(2*1	I5A+20A)			
Max.Short Circuit Current	52A (2*26A)	66A (2*2	20A+26A)			
Start Input Voltage		90V				
MPPT Operating Voltage Range		60V-550V				
Max. Number of PV Strings	2 (1/1)	3(2/1)			
No. of MPPTs	, ,	2	,			
Output (Grid)						
Rated AC Active Power	7,000W	8,000W	10,000W			
Rated Apparent Power	7,000VA	8,000VA	10,000VA			
Max. AC Apparent Power	7,700VA	8,800VA	10,000VA			
Max. AC Active Power (PF=1)	7,700W	8,800W	10,000W			
Max. AC Output Current	35A	40A	45.5A			
Rated AC Voltage	337.	220V/230V, L+N+PE	.5.571			
AC Voltage Range①		160V-300V (Adjustable)				
Rated Grid Frequency		50Hz / 60Hz				
Grid Frequency Range②	Δ1	45Hz-55Hz / 55Hz-65Hz (Adjustable)				
THDI	·	<3% (Rated Power)				
DC Current Injection		<0.5%In				
Power Factor	>0.99	>0.99 Rated power (Adjustable 0.8 LD-0.8 LG)				
Protection		That be the first that a second secon	0.0 20,			
DC switch		Support				
Anti-islanding protection		Support				
AC overcurrent protection		Support				
AC short circuit protection		Support				
DC reverse connection		Support				
Surge Arrester		DC Type III (Optional) / AC Type	III			
Insulation detection		Support				
Leakage current protection		Support				
General		очрроге				
Topology		Transformerless				
IP Rating		IP65				
Night Self Consumption		<1W				
Cooling		Natural cooling				
Operating Temperature Range		-25°C-60°C				
Relative Humidity Range		0-100%				
Max. Operating Altitude		4000m				
Noise (typical)		4000m 30dB				
Dimensions (W*H*D)		400mm*450mm*170mm				
Weight		400mm^450mm^170mm 16Kg				
HMI & COM		Tony				
Display	\/	Wireless & APP+LED, LCD (Optional)				
Communication	V	Optional: WiFi / GPRS / RS485				
Certification		Optional: Wil 17 01 N.37 N.3403				
Safety		IEC62109-1, IEC62109-2				
Grid Code	DF-ΔR-N 4105 FN 50549	9-1, CEI 0-21, UNE 206001/206	002-1 IFC 61727/62116			
OHO COUC		n°140 2022, IEEE 1547, AS 477				
Warranty	ONDINANCE	10 Years	I TADE O IZO-I			

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & DUAL MPPT

PV 5/6/8/10/12/15KTL-D3/G2

Application: Small-sized Industrial and Residential Use





SUPERIOR EFFICIENCY

- Maximum efficiency 98.3%
- Max String Current 20A, compatible with 600W+ modules
 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion
- DC /AC SPD, AFCI detection optional
- Compatible with wide power grid voltage and high harmonic power grid environment



INTELLIGENT MAINTENANCE

- App quick commissioning
- Remote configuration and upgrade
- Supports export control

Model	PV 5KTL-D3/G2	PV 6KTL-D3/G2	PV 8KTL-D3/G2	PV 10KTL-D3/G2	PV 12KTL-D3/G2	PV 15KTL-D3/G2	
Efficiency							
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%	
European Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	
Input (PV)							
Max. Input Voltage		1100V					
Max. PV configuration			15	0%			
Rated Input Voltage			62	20V			
Max. Input Current		2*	15A		2*15	A+15A	
Max.Short Circuit Current		2*.	20A		2*20	A+20A	
Start Input Voltage			18	30V	ı		
MPPT Operating Voltage Range			160V-	-1000V			
Max. Number of PV Strings		2 (1/1)		3 (2/1)	
No. of MPPTs		•		2		·	
Output (Grid)							
Rated AC Active Power	5,000W	6,000W	8,000W	10,000W	12,000W	15,000W	
Rated Apparent Power	5,000VA	6,000VA	8,000VA	10,000VA	12,000VA	15,000VA	
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	
Max. AC Active Power (PF=1)	5,500W	6,600W	8,800W	11,000W	13,200W	16,500W	
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*16.8A	3*20.2A	3*25.3A	
Rated AC Voltage		1	380V / 400V / 4	15V, 3W+N+PE	I		
AC Voltage Range①			260V-510V	(Adjustable)			
Rated Grid Frequency				/ 60Hz			
Grid Frequency Range 2			45Hz-55Hz / 55Hz	z-65Hz (Adjustable)			
THDI				ited Power			
DC Current Injection			<0.5%@Ra	ated Current			
Power Factor		>	0.99 Rated power (Ad	djustable 0.8 LD - 0.8 I	_G)		
Protection				•			
DC switch			Sup	port			
Anti-islanding protection			Sup	port			
AC overcurrent protection			Sup	port			
AC short circuit protection			Sup	port			
DC reverse connection			Sup	port			
Surge Arrester		АС Туре	e III (Type II optional)	/ DC Type III (Type II o	otional)		
Insulation detection		Support					
String current detection			Sup	port			
Leakage current protection			Sup	port			
General							
Topology			Transfo	rmerless			
IP Rating			IP	66			
Night Self Consumption			<	1W			
Cooling			Natura	cooling			
Operating Temperature Range			-25°(C-60°C			
Relative Humidity Range			0-1	00%			
Max. Operating Altitude	4000m						
Noise	<30dB						
Dimensions (W*H*D)	398mm*460mm*190mm						
Weight HMI & COM			23	BKg			
Display			Wireless & APP +1	LED, LCD (Optional)			
Communication	RS485, Optional: WiFi / GPRS / 4G						
Certification	·						
Safety			IEC62109-1	, IEC62109-2			
Grid Code	VDE-AR-N	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116, AS 4777					
Warranty		,		/ears			

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

THREE PHASE & DUAL MPPT

PV 10/15KTL-D3/G2P, PV 17/20/22/25KTL-D3/G2

Application: Small-sized Industrial and Residential Use





SUPERIOR EFFICIENCY

- Maximum efficiency 98.4%
- Max String Current 20A, compatible with 600W+ modules
 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion
- DC /AC SPD, AFCI detection optional
- · Compatible with wide power grid voltage and high harmonic power grid environment



INTELLIGENT MAINTENANCE

- App quick commissioning
- Remote configuration and upgrade
- Supports export control

M. D.	DV 40VTL D2/00D	DV4EVTI D2/02D	DV 47VT D2/02	DV 20VTL D2/02	DI CONTI DO ICO	DV OF VIL DO IOO	
Model	PV 10KTL-D3/G2P	PV 15KTL-D3/G2P	PV 17KTL-D3/G2	PV 20KTL-D3/G2	PV 22KTL-D3/G2	PV 25KTL-D3/G2	
Efficiency	00.00/	00.40/	00.40/	00.40/	00.40/	00.40/	
Max. Efficiency	98.3%	98.4%	98.4%	98.4%	98.4%	98.4%	
European Efficiency	97.8%	98.0%	98.0%	98.0%	98.0%	98.0%	
Input (PV)							
Max. Input Voltage		1100V					
Max. PV configuration				0%			
Rated Input Voltage		I	62	20V			
Max. Input Current	30A+15A			2*30A			
Max.Short Circuit Current	40A+20A			2*40A			
Start Input Voltage				30V			
MPPT Operating Voltage Range			160V-	1000V			
Max. Number of PV Strings	3 (2/1)			4 (2/2)			
No. of MPPTs				2			
Output (Grid)							
Rated AC Active Power	10,000W	15,000W	17,000W	20,000W	22,000W	25,000W	
Rated Apparent Power	10,000VA	15,000VA	17,000VA	20,000VA	22,000VA	25,000VA	
Max. AC Apparent Power	11,000VA	16,500VA	18,700VA	22,000VA	24,200VA	25,000VA	
Max. AC Active Power (PF=1)	11,000W	16,500W	18,700W	22,000W	24,200W	25,000W	
Max. AC Output Current	3*16.8A	3*25.3A	3*28.6A	3*33.7A	3*37A	3*39.8A	
Rated AC Voltage			1	15V, 3W+N+PE			
AC Voltage Range①				(Adjustable)			
Rated Grid Frequency				/ 60Hz			
Grid Frequency Range ②				z-65Hz (Adjustable)			
THDI				ted Power			
DC Current Injection				ated Current			
Power Factor				djustable 0.8 LD - 0.8 LG	j)		
Protection			o. 77 hatea power (7)	ajustubie 0.0 LD 0.0 LC	• /		
DC switch			Sur	port			
Anti-islanding protection				pport			
AC overcurrent protection				pport			
				pport			
AC short circuit protection				pport			
DC reverse connection		AC Tu		/ DC Type III (Type II opt	ional)		
Surge Arrester		AC Ty			.1011a1)		
Insulation detection				pport			
String current detection			·	ional			
Leakage current protection			Sup	pport			
General			-				
Topology				rmerless			
IP Rating				66			
Night Self Consumption	N		<	1W			
Cooling	Natural cooling			Fan cooling			
Operating Temperature Range				C-60°C			
Relative Humidity Range			0-1	00%			
Max. Operating Altitude	4000m						
Noise	<45dB						
Dimensions (W*H*D)			398mm*460)mm*190mm			
Weight			23	BKg			
HMI & COM							
Display			Wireless & APP +1	LED, LCD (Optional)			
Communication	RS485, Optional: WiFi / GPRS / 4G						
Certification							
Safety			IEC62109-1,	, IEC62109-2			
Grid Code	VDE-AF	R-N 4105, EN 50549-1,		/206007-1, UNE 21700	1, IEC 61727/62116, <i>I</i>	AS 4777	
Warranty				/ears			
,							

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

THREE PHASE & QUAD MPPT

PV 50/60KTL

Application: Large-scale Industrial and Commercial Sites





SUPERIOR EFFICIENCY

- Maximum efficiency 99.0%
- String current 13A, compatible with high power modules
 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Integrated type II DC/AC SPD
- APP for local settings & display
- High quality components use



INTELLIGENT MAINTENANCE

- String level I/V detect (Optional)
- Remote configuration and upgrade
- Supports export control

Model	PV 50KTL	PV 60KTL		
Efficiency				
Max. Efficiency	99.0)%		
European Efficiency	98.5	5%		
Input (PV)				
Max. Input Voltage	1100	OV		
Max. PV configuration (STC)	150	%		
Rated Input Voltage	620	V		
Max. Input Current	130A (39A/39A/26A/26A)	156A (39A/39A/39A/39A)		
Max.Short Circuit Current	150A (45A/45A/30A/30A)	180A (45A/45A/45A/45A)		
Start Input Voltage	250	V		
MPPT Operating Voltage Range	200V-1	000V		
Max. Number of PV Strings	10 (3/3/2/2)	12 (3/3/3/3)		
No. of MPPTs	4			
Output (Grid)				
Rated AC Active Power	50,000W	60,000W		
Rated Apparent Power	50,000VA	60,000VA		
Max. AC Apparent Power	55,000VA	66,000VA		
Max. AC Active Power (PF=1)	55,000W	66,000W		
Max. AC Output Current	3*76A	3*92A		
Rated AC Voltage	380V/400V,			
AC Voltage Range①	277V-520V (<i>I</i>			
Rated Grid Frequency	50Hz /			
Grid Frequency Range②	45Hz-55Hz / 55Hz-65Hz (Adjustable)			
THDI	<3% (Rate	•		
DC Current Injection	<0.5% n			
Power Factor	>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)			
Protection	2 0.77 Nated power (rag)	33(43)(6 0.0 E5 0.0 E3)		
DC switch	Supp	ort		
Anti-islanding protection				
AC overcurrent protection	Support Support			
AC short circuit protection	Supp			
DC reverse connection	Supp			
Surge Arrester	DC Type II / A			
Insulation detection	Supp			
Leakage current protection	Supp			
General General	3ирр	VII t		
	Transforn	norloss		
Topology ID Pating	iransform			
IP Rating	<1\			
Night Self Consumption				
Cooling Operating Temperature Penge	Fan coo			
Operating Temperature Range	-25°C-			
Relative Humidity Range	0-100			
Max. Operating Altitude	4000			
Noise	<62			
Dimensions (W*H*D)	855mm*555n			
Weight	73Kg	74Kg		
HMI & COM		D 10D (0 11 1)		
Display	Wireless & APP+LE	•		
Communication	RS485, Optional: Wif	-i / GPRS / 4G / LAN		
Certification				
Safety	IEC62109-1, I			
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/2			
Warranty	10 Ye	ears		

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

THREE PHASE & MULTIPLE MPPT

PV 110KTL-M3/125KTL-MH3

Application: Large-scale Industrial and Commercial Sites





SUPERIOR EFFICIENCY

- Maximum efficiency 98.8%
- Compatible with high power modules (500W/600W+)
 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Integrated type II DC/AC SPD, AFCI detection optional
- IP66 waterproof and dustproof, C5 anti-corrosion
- High quality components use



INTELLIGENT MAINTENANCE

- String level I/V detect (Optional)
- Remote configuration and upgrade
- Supports export control

Model	PV 110KTL-M3	PV 125KTL-MH3				
Efficiency						
Max. Efficiency	98.6%	98.8%				
European Efficiency	98.2%	98.4%				
Input (PV)						
Max. Input Voltage	110	OV				
Max. PV configuration	150%					
Rated Input Voltage	620V					
Max. Input Current	3*40A+					
Max. Short Circuit Current	3*50A+					
Start Input Voltage/ Min. Operating Voltage	250V/					
MPPT Operating Voltage Range	200V-1					
	18 (9					
Max. Number of PV Strings	9	~2)				
No. of MPPTs	9					
Output (Grid)						
Rated AC Active Power	110,000W	125,000W				
Rated Apparent Power	110,000VA	125,000VA				
Max. AC Apparent Power	121,000VA	137,500VA				
Max. AC Active Power (PF=1)	121,000W	137,500W				
Max. AC Output Current	3*185.9A	3*165.5A				
Rated AC Voltage	400V, 3W+N+PE	480V, 3W+PE				
AC Voltage Range*	277V-520V (Adjustable)	300V-550V (Adjustable)				
Rated Grid Frequency	50Hz/	*				
Grid Frequency Range**	45Hz-55Hz / 55Hz-0					
THDI	<3% (Rate					
DC Current Injection	<0.5%In					
Power Factor	> 0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)					
Protection	> 0.77 Nated power (Adjustab	0.0 LD 0.0 LG)				
DC switch	Supp	ort				
Anti-islanding protection	Supp					
AC overcurrent protection	Support					
AC short circuit protection	Support					
DC reverse connection	Support					
Surge Arrester	DC Type II /					
Insulation detection	Supp					
Leakage current protection	Supp					
AFCI	Optio					
PID Recovery	Optio					
PV String monitoring	Optio	nal				
Night load consumption monitoring	Optio	nal				
General						
Topology	Transforn	nerless				
IP Rating	IP6	6				
Night Self Consumption	<10	W				
Cooling	Fan coo					
Operating Temperature Range	-25°C-0	•				
Relative Humidity Range	0-10					
Max. Operating Altitude	4000					
Noise						
	<75dB					
Dimensions (W*H*D)	850mm*670mm*356mm					
Weight	85K	.y				
HMI & COM		100 (0 1)				
Display	Wireless & APP +LEI					
Communication	RS 485, Optional: Wi	Fi / GPRS / 4G / LAN				
Certification						
Safety	IEC62109-1, I	EC62109-2				
Grid Code	VDE-AR-N 4105, VDE-AR-N 411	0, EN 50549-1/-2, CEI 0-21,				
	UNE 206006/206007-1,	UNE 217001, AS 4777				
Warranty	10 Ye					

 $\textbf{Remarks:} \quad \bullet \quad \text{The range of output voltage and frequency may vary depending upon different grid codes}.$





HIGH YIELD

- Max Charge/Discharge efficiency 94%Convenient to retrofit existing grid-connected systems increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery lifeNatural cooling design



INTELLIGENT MAINTENANCE

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

Model	PV 4K6AC	PV 5KAC	PV 6KAC		
Efficiency					
Max.efficiency (Max. charge/discharge)		94.0%			
Input (BAT)					
Compatible battery type		Lithium-ion / Lead-acid			
Nominal battery voltage		48V			
Battery voltage range		40V-60V			
Max. charge/discharge current	100A / 100A	100A / 100A	120A / 120A		
Max. charge/discharge power	5000W / 5000W	5000W / 5000W	6000W / 6000W		
Lithium battery charge curve		Self-adaption to BMS			
Output (Grid)					
Nominal AC output power	4600W	5000W	6000W		
Rated Apparent Power	4600VA	5000VA	6000VA		
Max. AC output apparent power	4600VA	5500VA	6000VA		
Max.AC output power (PF=1)	4600W	5500W	6000W		
Max. AC output current	22A	25A	27.2A		
Rated AC voltage		220V / 230V			
AC voltage range		150V-300V (Adjustable)			
Rated grid frequency		50Hz / 60Hz			
AC frequency range	4.	5Hz-55Hz/55Hz-65Hz (Adjustable)		
Grid connection		Single phase	•		
Power factor	> 0.99 @	Prated power (Adjustable 0.8 LD -	0.8 LG)		
THDI	3.77	<3% (Rated Power)			
Output (Back up)		· · · · · · · · · · · · · · · · · · ·			
Nominal output voltage		230V			
Nominal output frequency		50Hz / 60Hz			
	4600W	5000W	5000W		
Nominal output power	20A	21.7A	21.7A		
Nominal output current	20A	=	21./A		
Transfer time	10ms (typ), 20ms (max) <3% @100% R Load				
THDV Protection		< 3 // @ 100 // N LOdu			
		Class I			
Protection category					
Anti-islanding protection		Support			
AC overcurrent protection		Support			
AC short circuit protection		Support			
Surge Arrester		AC Type III			
Leakage current protection		Support			
AC overvoltage category		III			
General		1000			
Max. operation altitude		4000m			
Noise emission		<35dB			
Ingress protection degree		IP65			
Operating temperature range		-25°C~60°C			
Relative humidity		0~100%			
Cooling concept		Natural Cooling			
Mounting		Wall bracket			
Dimensions (W*H*D)		515mm*485mm*175mm			
Weight		20Kg			
Battery connection way		Dedicated DC connector			
AC connection way (grid & back up)	Dedicated AC connector				
HMI & COM					
Display		LED+APP			
Communication interface	RS485/CAN (for BMS), RS4	85, USB, DRM/RS485 (for Meter),	Optional: WiFi/GPRS/L		
Certification					
Grid	VDE-AR-N4105, IEC 61727	62116, AS 4777, EN 50549-1, G	99, CEI 0-21, NRS 097-2		
Safety		IEC62040-1, IEC62477-1			
Warranty		10 Years			

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.

PV 4.6/5/6KHB-60, PV 4.6/5/6KHB-120





HIGH YIELD

- Max efficiency 97.3%, Battery efficiency 94%
 Max. Charge/Discharge Current 120A
 Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery lifeNatural cooling design



INTELLIGENT MAINTENANCE

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

Model	PV 4K6HB-60	PV 4K6HB-120	PV 5KHB-60	PV 5KHB-120	PV 6KHB-60	PV 6KHB-120
Efficiency						
Max.efficiency (PV to AC)				.3%		
Max.efficiency (BAT to AC)			94	.0%		
Input (PV)						
MAX PVPower	9000W					
Max PV voltage				60V		
Max input current (input A/input B)				/15A		
Max short current (input A/input B)				/20A		
Start operating voltage				0V		
MPPT voltage range				520V		
No.of MPPT trackers				2		
String per MPP tracker				1		
Input (BAT)						
Compatible battery type				n / Lead-acid		
Nominal battery voltage				8V		
Battery voltage range		1		-60V		
Max. charge/discharge current	60A/60A	120A/120A	60A/60A	120A/120A	60A/60A	120A/120A
Max. charge/discharge power	3000W/3000W	5000W/5000W	3000W/3000W	5000W/5000W	3000W/3000W	6000W/6000W
Lithium battery charge curve			Self-adapt	ion to BMS		
Output (Grid)						
Nominal AC output power	4600W	4600W	5000W	5000W	6000W	6000W
Rated Apparent Power	4600VA	4600VA	5000VA	5000VA	6000VA	6000VA
Max. AC output apparent power	4600VA	4600VA	5500VA	5500VA	6000VA	6000VA
Max.AC output power (PF=1)	4600W	4600W	5500W	5500W	6000W	6000W
Max. AC output current	22A	22A	25A	25A	27.2A	27.2A
Rated AC voltage				/ 230V		
AC voltage range				(Adjustable)		
Rated grid frequency				/ 60Hz		
AC frequency range				-65Hz (Adjustable)		
Grid connecion	Single phase					
Power factor		>	0.99 @rated power (A		LG)	
THDI			<3% (Rat	ed Power)		
Output (Back up)						
Nominal output voltage				80V		
Nominal output frequency				/ 60Hz		
Nominal output power	3000W	4600W	3000W	5000W	3000W	6000W
Nominal output current	13A	20A	13A	21.7A	13A	26A
Transfer time				20ms (max)		
THDV			<3% @10	0% R Load		
Protection			01.			
Protection category				ISS I		
DC switch				port		
Anti-islanding protection				port		
AC object discussion				port		
AC short circuit protection				port		
DC reverse connection				port		
Surge Arrester			21	, AC Type III		
Insulation detection				port		
Leakage current protection			Sup	port		
PV overvoltage category						
AC overvoltage category General			·	II		
			400	00m		
Max. operation altitude Noise emission						
				5dB		
Ingress protection degree				65		
Operating temperature range				~60°C		
Relative humidity				00%		
Cooling concept				Cooling		
Mounting				oracket		
Dimensions (W*H*D)	2017	051/-	I .	mm*175mm	201/5	251/
Weight	20Kg	25Kg	20Kg	25Kg	20Kg	25Kg
PV connection way				4/H4		
Battery connection way				OC connector		
AC connection way (grid & back up)			Dedicated F	AC connector		
HMI & COM			IED	ADD		
Display Communication interfess		DCAOE/CAN// D: 10		+APP	danal West Copper	1
Communication interface		KS485/CAN (for BMS	5), RS485, USB, DRM/F	3485 (for Meter), Opt	tional: WiFi/GPRS/LAN	V
Certification		UDE AR MALE	(4707//044/	7 511 505 10 1 515	051.0.04.1100.555	
Grid Sofoto		VDE-AR-N4105, IEC	31727/62116, AS 477		LEI 0-21, NRS 097-2-1	I
Safety			1EC62109-1&2, 1EC6	2040-1, IEC62477-1		
Warranty			401	/ears		

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.





Energy Storage Inverter

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	PV 5KHB-D3	PV 6KHB-D3	PV 8KHB-D3	PV 10KHB-D3
Efficiency				
Max.efficiency (PV to AC)	98.2%	98.2%	98.4%	98.4%
Eur.efficiency (PV to AC)	97.2%	97.2%	97.9%	97.9%
Max.efficiency (BAT)			3.0%	
input (PV)		70	3.0 /0	
MAX PVPower	8000W	9000W	12000W	15000W
	000000			130000
Max PV voltage	45.145.		00V	001/001
Max input current (input A/input B)	15A/15A	15A/15A	20A/30A	20A/30A
Max short current (input A/input B)	20A	/20A	304	N/40A
MPPT voltage range		160\	/-950V	
No.of MPPT trackers			2	
String per MPP tracker	1-	+1	1	+2
Input (BAT)			1	
Compatible battery type		Lithium io	n / Lead-acid	
Nominal battery voltage			/-600V	
Battery voltage range	051/051		/-600V	504/504
Max. charge/discharge current	25A/25A	25A/25A	50A/50A	50A/50A
Max. charge/discharge power	8000W/5200W	9000W/6300W	12000W/10500W	15000W/10500W
Lithium battery charge curve		Self-adapt	tion to BMS	
Output (Grid)	<u> </u>			
Nominal AC output power	5000W	6000W	8000W	10000W
Rated Apparent Power	5000VA	6000VA	8000VA	10000VA
Max. AC output apparent power	5500VA	6600VA	8800VA	10000VA
Max.AC output power (PF=1)	5500W	6600W	8800W	10000W
Max. AC output current	3*8.3A	3*10A	3*13.3A	3*15.2A
Rated AC voltage		380V	/400V	
AC voltage range		277V-520V	(Adjustable)	
Rated grid frequency			/ 60Hz	
AC frequency range			:-65Hz (Adjustable)	
Grid connecion				
			phase	
Power factor			djustable 0.8 LD - 0.8 LG)	
THDI		<3% (Ra	ted Power)	
Output (Back up)				
Nominal output voltage		380V	/ 400V	
Nominal output frequency		50Hz	/ 60Hz	
Nominal output power	5000W	6000W	8000W	10000W
Nominal output current	3*7.6A	3*9.1A	3*12.2A	3*15.2A
	3"7.0A			3"1J.ZA
Transfer time		. 31 .	/ 20ms (max)	
THDV		<3% (R Load),	, 5% (RCD Load)	
Protection				
Anti-islanding protection		Sur	oport	
AC overcurrent protection		Sur	pport	
AC short circuit protection			pport	
AC over-voltage protection			pport	
Surge Arrester				
Insulation detection			I, AC Type II	
			oport	
GFCI			oport	
AFCI		Opt	ional	
RSD			ional	
General				
Max. operation altitude		40	00m	
Noise emission				
			OdB	
Ingress protection degree			P65	
Operating temperature range			C~45°C	
Relative humidity		0~	100%	
Cooling concept		Natura	l Cooling	
Mounting			oracket	
Dimensions (W*H*D)			Omm*212mm	
Weight	24			0Va
	26	5Kg		9Kg
PV connection way			4 / H4	
Battery connection way		Dedicated I	DC connector	
HMI & COM				
Display		LED+APP	(Bluetooth)	
Communication interface	RMS (CAN/RS/ASS) Ontion		DRM/RCR) / Meter (RS485), 1*D	O IISB (Firmware ungrado)
Certification	DIVIS (CAN/INS403), Option	nai. Wii i/Oi NJ/4U/LUIEIIIEL, DI (DINIVITACINAL INICIAL (NO400), 1 "DI	o, oso (i iiiiwale upgiade)
			1 1/DE 440E 10 1335 1511	000
Grid	IEC		1, VDE 4105, AS 4777, CEI 0-21,	G98
Safety		IEC62109-1&2, IEC6	62040-1, IEC62477-1	
Warranty	T. Control of the Con	10.1	Years	

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

DATA LOGGER V1000+



- Built-in Web Server, supporting LAN monitoring

- 12 Months data storage
 Automatic network-clock synchronization
 RS485 Interface for the Connection of Inverters
- Standard RJ45 Path Cable
- Supports export control

Model	V1000+			
Connection	Inverter: RS485 Router: RJ45			
Access Number	40pcs			
Transmission maximum distance	1200m			
Display	LED			
Input				
Input Voltage	Input: AC 90V-250V 50/60Hz Output: DC 5V			
Static Current Consumption	1A			
General				
Operating temperature	-25°C~55°C			
Humidity	10%~95% relative humidity, no condensation			
IP Rating	IP20			
Dimension (L*W*H)	118mm*78mm*29mm			
Certification				
Safety	FCC, CE, ROHS			

WIFI Communication Module PV WIFI-R

- Plug and play, quick and convenientPreferred monitoring solution for residential us



Model	PV WIFI-R			
Connection	ΠL			
Standards	802.11 b/g/n			
Transmission maximum distance	100m Unobstructed environment			
Setting	APP/WEB			
Input				
Input Voltage	DC 5V			
Static Power Consumption	<1.6W			
General				
Operating temperature	-25°C~60°C			
Humidity	0%~100% relative humidity, no condensation			
IP Rating	IP65			
Dimension (L*W*H)	71.4mm*71mm*38mm			
Certification				
Safety	FCC, CE, ROHS			

GPRS Communication Module PV GPRS-R

- Plug and play, quick and convenientMobile internet monitoring, best suited for rural and remote areas



Model	PV GPRS-R
Connection	ΠL
Standards	GSM/GPRS
Transmission maximum distance	***
Setting	Plug and Play
Input	
Input Voltage	DC 5V
Static Power Consumption	<2W
General	
Operating temperature	-25°C~60°C
Humidity	0%~100% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	71.4mm*71mm*38mm
Certification	
Safety	FCC. CF. ROHS

4G Communication Module PV 4G-R

- Plug and play, quick and convenientMobile internet monitoring, best suited for rural and remote areas

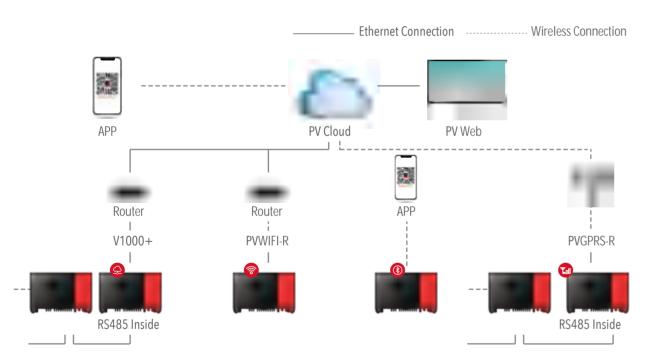


Model	PV 4G-R
Connection	ΠL
Standards	FDD/TDD - LTE
Transmission maximum distance	
Setting	Plug and Play
Input	
Input Voltage	DC 5V
Static Power Consumption	<3.5W
General	
Operating temperature	-25°C∼60°C
Humidity	0%~90% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	122.8mm*79mm*34mm
Certification	
Safety	FCC, CE, ROHS

SMART SOLAR CLOUD

- For Residential/Commercial/Storage application
- Android/iOS APP comply with latest Android/iOS OS system
- Cloud service based in Europe, America, Singapore and China
- String Monitoring
- Intelligent data analysis













PRESALES SUPPORT



SPECIALIZED PRODUCT CONSULTING



ONE-ON-ONE APPLICATION COACHING



PRODUCT TRAINING

AFTER SALE SERVICE



SUFFICIENT WARRANTY

- 63 months standard warranty for inverters Up to \$10M Product Liability
- Insurance for inverters shipped



REPLACEMENT SERVICE

- Spare units provided for quick replacement of the failure unit
- Remaining warranty period of defective unit transferred automatically



RESPONSIVENESS

- Quick response to any quality issues and service request from partners
- Expertise on various field applications to help problem solving

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GLOBAL NETWORK



VISION & MISSION

Benefiting from its strong R&D capabilities, PrimeVOLT provides products with stable high performance, as well as offers professional services through localized support. We are committed to being the most reliable inverter manufacturer and leading the trend of global market.

MARKETING PROMOTION







APPLICATION REFERENCES



YUNLIN COUNTY, TAIWAN 475.2MW



TAOYUAN CITY, TAIWAN
5MW



RUISUI TOWN,HUALIEN COUNTY, TAIWAN1.1KW



CHIAYI COUNTY, TAIWAN



SUAO, YILAN COUNTY, TAIWAN 1MW



AGONG-DIAN RESERVOIR, KAOHSIUNG CITY, TAIWAN2.3MW

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