

 **ANCHOR**
by **Panasonic**



SAFE AND RELIABLE

**GRID TIED
PV INVERTER**

20K~25KTL3X

- Reliable Performance with 98.77% maximum efficiency
- Dual MPPT for better shade performance
- Lightweight and Compact Design
- IP 65 Enclosures
- Plug & Play device with Quick configuration through OLED Display
- Export Control Feature Available
- 25 Years Data Storage over cloud



Datasheet	20KTL3X	25KTL3X
Input Parameters (DC)		
Max. recommended PV power (for module STC)	30000W	37500W
Max. DC voltage	1100V	
Start voltage	250V	
Nominal voltage	580V	
MPPT voltage range	160V-1000V	
No. of MPPT	2	
No. of PV strings per MPPT	2	2/3
Max. input current per MPPT	25A	25A/37.5A
Max. short circuit current per MPPT	32A	32A/48A
Output Parameters (AC)		
Rated AC output power	20000W	25000W
Max. AC apparent power	22000VA	27700VA
Nominal AC voltage (range)	230V/400V (340-440V)	
AC grid frequency (range)	50Hz (45-55Hz)	
Max. output current	31.9A	40.2A
Adjustable power factor	0.8leading...0.8lagging	
THDi	<3%	
AC grid connection type	3W+ N+ PE	
Product Efficiency		
Max. efficiency	98.75%	
European efficiency	98.6%	
MPPT efficiency	99.9%	
System Protections		
DC reverse polarity protection	Yes	
DC Switch	Yes	
AC/DC surge protection	TypeII/Type II	
Insulation resistance monitoring	Yes	
AC short-circuit protection	Yes	
Ground fault monitoring	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Residual-current monitoring unit	Yes	
General data		
Dimensions (W / H / D)	525/395/222mm	
Weight	23kg	
Operating temperature range	-25 °C ... +60 °C	
Noise emission (typical)	≤40 dB(A)	
Self-Consumption (night)	<1W	
Topology	Transformerless	
Cooling	Smart air cooling	
Protection degree	IP65	
Relative Humidity	0-100%	
Altitude	4000m	
DC connection	H4	
AC connection	Cable gland+OT terminal	
Display	OLED+LED/WIFI+APP	
Interfaces: RS485 /USB/WI-FI/GPRS	Yes/Yes/Optional/Optional	
Warranty	10 years (For datalogger - 1 year)	
IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 62109, IP 65		

Panasonic Life Solutions India Pvt. Ltd.

Doc. No. : GridTie_3Ph_20-25kW_01

Registered Office : 12th Floor, Ambience Tower, Ambience Island, NH-48, Gurugram, Haryana - 122 002.

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Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. Color differences of the product relative to the figures as well as discolorations of/in the products which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

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SAFE AND RELIABLE

**GRID TIE
INVERTER**

3K~15KTL3X

- Reliable Performance with 98.6% maximum efficiency
- Dual MPPT for better shade performance
- Designed for C5 Corrossion Protection
- IP 66 Enclosures
- Plug & Play device with Quick configuration through OLED Display
- 25 Years Data Storage over cloud



Datasheet	3KTL3X	4KTL3X	5KTL3X	6KTL3X	STELLAR-8KTL3X
Input Parameters (DC)					
Max. recommended PV power (for module STC)	4500W	6000W	7500W	9000W	12000W
Max. DC voltage	1100V				
Initial voltage	200V				
Nominal voltage	580V				
MPPT voltage range	1000V				
No. of independent MPPT	2				
No. of PV strings per MPPT	1				
Max. input current per MPPT	13A				
Max. short circuit current per MPPT	16A				
Output Parameters (AC)					
AC nominal power	3000W	4000W	5000W	6000W	8000W
Max. AC apparent power	3300VA	4400VA	5500VA	6600VA	8800VA
Nominal AC voltage/range	230V/400V (340-440V)				
AC grid frequency (range)	50Hz(45-55Hz)				
Max. output current	5.0A	6.7A	8.3A	10.0A	13.3A
Power factor	0.8 leading... 0.8 lagging				
THDi	<3%				
AC grid connection type	3W+N+PE				
Product Efficiency					
Max. Efficiency	98.3%	98.3%	98.3%	98.3%	98.6%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%	98.1%
MPPT Efficiency	99.9%				
System Protection					
DC reverse-polarity protection	Yes				
DC Switch	Yes				
DC Surge protection	Type II				
Insulation resistance monitoring	Yes				
AC surge protection	Type II				
Output short circuit protection	Yes				
Ground fault monitoring	Yes				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Residual-current monitoring unit	Yes				
General Data					
Dimensions(W / H / D) in mm	425/387/147mm	425/387/147mm	425/387/147mm	425/387/147mm	425/387/178mm
Weight	12.5 kg	12.5 kg	12.5 kg	12.5 kg	14 kg
Operating temperature range	-25°C ... +60°C (with derating above 45°C / 113°F)				
Self-Consumption	<1W				
Topology	Transformerless				
Cooling	Natural convection				
Degree of protection	IP 66				
Altitude	4000m				
Relative Humidity	0-100%				
Features					
DC connection	H4				
AC connection	Connector				
Display	OLED+LED WIFI+APP				
Interfaces: USB/RS485/WIFI/GPRS	Yes/Yes/Opt/Opt				
Warranty	10 years				

Datasheet	9KTL3X	10KTL3X	12KTL3X	15KTL3X
Input Parameters (DC)				
Max. recommended PV power (for module STC)	13500W	15000W	18000W	22500W
Max. DC voltage	1100V			
Initial voltage	200V			
Nominal voltage	580V			
MPPT voltage range	1000V			
No. of independent MPPT	2			
No. of PV strings per MPPT	1	1	2/1	2/1
Max. input current per MPPT	13A	13A	26/13	26/13
Max. short circuit current per MPPT	16A	16A	32/16	32/16
Output Parameters (AC)				
AC nominal power	9000W	10000W	12000W	15000W
Max. AC apparent power	9900VA	11000VA	13200VA	16500VA
Nominal AC voltage (range)	230V/400V (340-440V)			
AC grid frequency (range)	50 Hz (45-55Hz)			
Max. output current	15.0A	16.7A	20A	25A
Power factor	0.8 leading... 0.8 lagging			
THDi	<3%			
AC grid connection type	3W+N+PE			
Product Efficiency				
Max. efficiency	98.6%			
Euro Efficiency	98.1%	98.1%	98.2%	98.2%
MPPT Efficiency	99.9%			
System Protections				
DC reverse-polarity protection	Yes			
DC Switch	Yes			
DC Surge protection	Type II			
Insulation resistance monitoring	Yes			
AC surge protection	Type II			
Output short circuit protection	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Residual-current monitoring unit	Yes			
General Data				
Dimensions(W / H / D) in mm	425/387/178mm	425/387/178mm	425/387/178mm	425/387/178mm
Weight	14 kg	14 kg	16 kg	16 kg
Operating temperature range	-25°C ... +60°C			
Noise emission (typical)	≤35 dB(A)			
Self-Consumption	<1W			
Topology	Transformerless			
Cooling	Natural convection			
Degree of protection	IP 66			
Altitude	4000m			
Relative Humidity	0-100%			
Features				
DC connection	H4			
AC connection	Connector			
Display	OLED+LED WIFI+APP			
Interfaces: USB/RS485/WIFI/GPRS	yes/yes/opt/opt			
Warranty	10 years (For datalogger - 1 year)			
IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 62109, IP 66				

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SAFE AND RELIABLE

**RESIDENTIAL
PV INVERTER**

4.2k~6KTLX

- Easy usability - Plug & Play
- Quick configuration with OLED Display
- Reliable Performance with 98.4% maximum efficiency
- Dual MPPT for better shade performance
- Lightweight, Compact & IP 65 Encloure- Ideal for residential setups



Datasheet	4.2KTLX	5KTLX	6KTLX
Input Parameters (DC)			
Max. recommended PV power (for module STC)	5880W	7000W	8100W
Max. DC voltage	550V	550V	550V
Start voltage	100V		
Nominal voltage	360V		
MPPT voltage range	80V-550V	80V-550V	80V-550V
No. of MPPT	2		
No. of PV strings per MPPT	1		
Max. input current per MPPT	12.5A		
Max. short-circuit current per MPPT	16A		
Output Parameters (AC)			
AC nominal power	4200W	5000W	6000W
Max. AC apparent power	4200VA	5000VA	6000VA
Nominal AC voltage (range)	230V (180-280V)		
AC grid frequency (range)	50Hz (45-55Hz)		
Max. output current	19A	22.7A	27.2A
Adjustable power factor	0.8leading...0.8lagging		
THDi	<3%		
AC grid connection type	Single phase		
Product Efficiency			
Max. efficiency	98.4%	98.4%	98.4%
European efficiency	97.5%	97.5%	97.5%
MPPT efficiency	99.9%		
System Protections			
DC reverse polarity protection	Yes		
DC switch	Yes		
AC/DC surge protection	Type II / Type III		
Insulation resistance monitoring	Yes		
AC short-circuit protection	Yes		
Ground fault monitoring	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Residual-current monitoring unit	Yes		
General Data			
Dimensions (W / H / D)	375/350/160mm		
Weight	10.8kg		
Operating temperature range	-25°C ... +60°C		
Noise emission (typical)	≤35 dB(A)		
Nighttime power consumption	< 1W		
Topology	Transformerless		
Cooling	Natural convection		
Protection degree	IP65		
Relative humidity	0-100%		
Altitude	4000m		
DC connection	H4		
AC connection	Connector		
Display	OLED+LED/WIFI+APP		
Interfaces: RS485 / USB/Wi-Fi/GPRS	Yes/Yes/Optional/Optional		
Warranty	10 years (For datalogger - 1 year)		
IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 62109, IP 65			

* The AC voltage and frequency range may vary depending on specific country grid standard. All specifications are subject to change without notice.

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Doc. No. : Grid Tie_1Ph_4.2k-6KTLX_01

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PV INVERTER**

1K~3.3KTLX

- Easy usability - Plug & Play
- Quick configuration with OLED Display
- Reliable Performance with 97.6% maximum efficiency
- Lightweight, compact & Low Noise- Ideal for residential setups
- IP 65 Enclosure for outdoor installations



Datasheet	1KTLX	2KTLX	3KTLX	3.3KTLX
Input Parameters (DC)				
Max. recommended PV power (for module STC)	1400W	2800W	4200W	4290W
Max. DC voltage	500V	500V	550V	550V
Start voltage	50V	50V	80V	80V
Nominal voltage	180V	360V	360V	360V
MPP voltage range	50V-500V	50V-500V	65V-550V	65V-550V
No. of MPPT	1			
No. of PV strings per MPPT	1			
Max. input current per MPPT	13A			
Max. short-circuit current per MPPT	16A			
Output Parameters (AC)				
AC nominal power	1000W	2000W	3000W	3300W
Max. AC apparent power	1000VA	2000VA	3000VA	3300VA
Nominal AC voltage (range)	230V (180-280V)			
AC grid frequency (range)	50Hz (45-55Hz)			
Max. output current	4.8A	9.5A	14.3A	14.3A
Adjustable power factor	0.8leading...0.8lagging			
THDi	<3%			
AC grid connection type	Single phase			
Product Efficiency				
Max. efficiency	97.4%	97.4%	97.6%	97.6%
European efficiency	96.5%	97.0%	97.1%	97.1%
MPPT efficiency	99.9%			
System Protections				
DC reverse polarity protection	Yes			
DC switch	Yes			
AC/DC surge protection	TypeIII/Type III			
Insulation resistance monitoring	Yes			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Residual-current monitoring unit	Yes			
General data				
Dimensions (W / H / D)	274/254/138mm			
Weight	6kg	6kg	6.2kg	6.2kg
Operating temperature range	-25 °C ... +60 °C			
Noise emission (typical)	≤25 dB(A)			
Nighttime power consumption	<0.5W			
Topology	Transformerless			
Cooling	Natural convection			
Protection degree	IP65			
Relative humidity	0-100%			
Altitude	4000m			
DC connection	H4			
AC connection	Connector			
Display	OLED+LED/WIFI+APP			
Interfaces: RS485 /USB/Wi-Fi/GPRS	Yes/Yes/Optional/Optional			
	10 years (For datalogger - 1 year)			
IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 62109, IP 65				

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