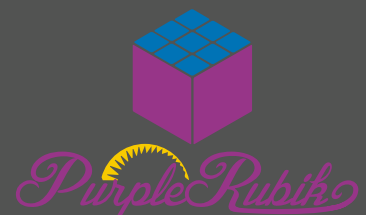


# Presola<sup>®</sup> String Inverter

Photovoltaic Inverter 1.5-25KW Series



PurpleRubik New Energy Technology Co., Ltd.

# Venus Series Single-phase String Inverters

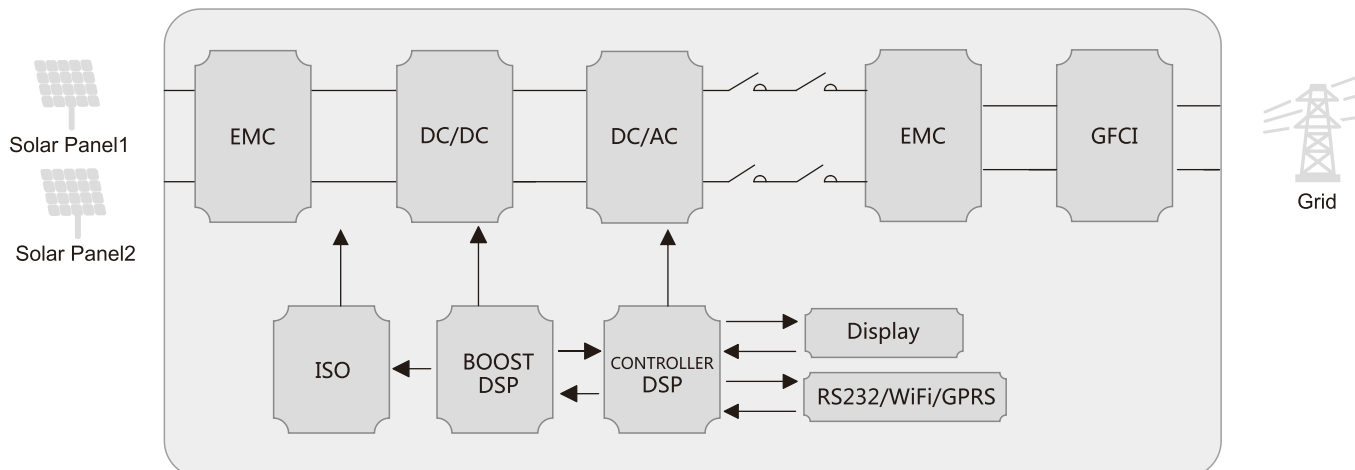
## PV-3000 / 3680 / 4000 / 4600 / 5000TL-DS

- ◇ Exquisite
- ◇ Trustworthy
- ◇ Intelligent
- ◇ Profitable



FEATURES	ADVANTAGES	BENEFITS
Components from world class suppliers	Longer MTBF (Mean Time Between Failures)	More electricity output Less down time
Automotive class PCB technology	Higher quality guaranteed	Reliable and stable under severe conditions
Optimized thermal design	Lower heat generation Faster heat dissipation	Lower internal operation temperature Longer component life
Silicone Rubber Gaskets & Seals	High performance sealing	Reliable and stable under severe conditions
Integrated enclosure design	High performance sealing possible Less chance of moisture invasion	Suitable for humid operation environments
Integrated air valve	Reduction of condensation	Operationable in more applications: fishing ponds, agricultural area, greenhouses, coastal areas
1000 hours of neutral salt spray testing	Suitable for harsh environments	Easy installation and maintenance possible
User friendly interface	Easy to operate	Data analysis Less maintenance
Intelligent monitoring system	Easy to manage and maintain	

### CIRCUIT DIAGRAM



# Venus Series Single-phase String Inverters

## PV-3000 / 3680 / 4000 / 4600 / 5000TL-DS

### TECHNICAL DATA

MODEL	PV-3000TL-DS	PV-3680TL-DS	PV-4000TL-DS	PV-4600TL-DS	PV-5000TL-DS
<b>Input (DC)</b>					
Max. DC Power	3200W	4000W	4500W	5000W	5500W
Max. Input Voltage	600V	600V	600V	600V	600V
MPP Operation Voltage Range/Nominal Input Voltage	100V-550V/380V	100V-550V/380V	100V-550V/380V	100V-550V/380V	100V-550V/380V
Startup Voltage	80V	80V	80V	80V	80V
Max. Input Current per String	10A/10A	10A/10A	10A/10A	10A/10A	10A/10A
Short-circuit Current	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A
Number of Independent MPP Inputs	2	2	2	2	2
Maximum Inverter Backfeed Current to Array	0A	0A	0A	0A	0A
<b>Output (AC)</b>					
Rated Power	3000W	3680W	4000W	4600W	5000W
Max. Apparent AC Power	3000VA	3680VA	4000VA	4600VA	5000VA
Nominal AC Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V
Nominal AC Voltage Range	180V-277V	180V-277V	180V-277V	180V-277V	180V-277V
AC Power Frequency	50Hz/60Hz/±5Hz	50Hz/60Hz/±5Hz	50Hz/60Hz/±5Hz	50Hz/60Hz/±5Hz	50Hz/60Hz/±5Hz
Max. Output Current	13.6A	16.7A	18.2A	20.9A	22.7A
Power Factor	0.8 ind...0.8 cap				
Total Harmonic Distortion (THD)	<3%	<3%	<3%	<3%	<3%
Feed-in Phases/Connection Phases	L+N+PE	L+N+PE	L+N+PE	L+N+PE	L+N+PE
Inrush Current(peak and duration)	62.5A peak@7.12ms	63.1A peak@6.90ms	78.1A peak@7.06ms	78.8Apeak@7.12ms	84.4Apeak@6.86ms
Maximum Output Fault Current	14.6A	17.7A	19.2A	21.9A	23.7A
Maximum Output Over Current Protection	17.7A	21.7A	23.7A	27.2A	29.5A
<b>Efficiency</b>					
Max. Efficiency	97.3%	97.4%	97.5%	97.6%	97.6%
European Weighted Efficiency	96.8%	96.9%	97.0%	97.1%	97.1%
<b>Protective Devices</b>					
DC Reverse Polarity Protection	Yes				
DC Switch	Optional				
AC Over Current Protection	Yes				
Ground Fault Monitoring	Yes				
Grid Monitoring	Yes				
Residual Current Monitoring Unit	Yes				
<b>General Data</b>					
Dimensions (W/H /D)	368*403*150				
Weight	15.8kg				
Operating Temperature Range	-25°C...+60°C				
Noise Emission (typical)	<=30dB(A)				
Max. Operating Altitude	>2000m derating				
Standby Losses	<3W				
Topology	Transformerless				
Cooling Concept	Natural Convection				
Degree of Protection (according to IEC 60529)	IP65				
Relative Humidity	0-95%, no condensation				
DC Connection Type	MC/Amphenol/Phoenix				
AC Connection Type	Plug-in Connector				
Display	LCD Light				
Interface	Rs232 (WiFi/GPRS Optional)				
Warranty	5/10 years(Optional)				
Certificates and approvals	IEC62109-1/-2; EN61000-6-2; EN61000-6-3; CE;AS4777.2-2015; VDE4105; EN50438; VDE0126; C10/11; IEC61727; IEC62116; IEC61683; IEC60068; CQC;				

\*The AC voltage and frequency range may vary due to local regulations.