

Leading - edge Technology

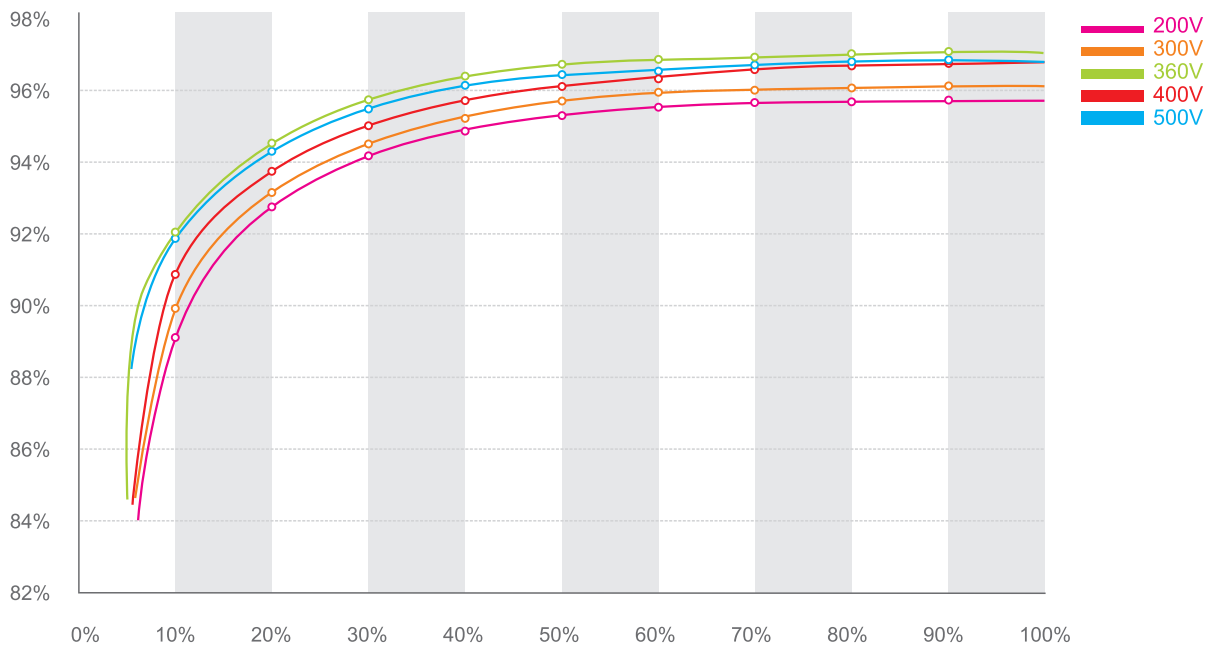
- Maximum efficiency of 97.8% and wide input voltage range
- Internal DC switch
- Transformerless H6 topology
- Compact design
- MTL - String
- Bluetooth technology
- Noise control
- Easy installation
- Comprehensive Growat warranty program



Europe ENS

- Simple national setting of line supply monitoring(ENS)
- Easy country configuration
- Multi - language display
- Currently available for Germany, Austria, Australia, France,
- Switzerland, UK, Italy and Spain

3k efficiency



Datesheet

	JCS-PI1.5TL	JCS-PI2.0TL	JCS-PI3.0TL	JCS-PI4.4TL	JCS-PI5.0TL
Input Data					
Max. DC power	1800W	2300W	3150W	4600W	5200W
Max. DC voltage	450V	500V	500V	580V	580V
Full load Mpp-Voltage range	230V - 450V	210V - 450V	250V - 450V	280V - 500V	280V - 500V
PV voltage range MPPT	120V - 450V	120V - 450V	120V - 450V	120V - 500V	120V - 500V
Max. number of parallel strings	1	2	2	3	3
Number of MPP trackers	1	1	1	1	1
MPPT input current	0 - 10A	0 - 12A	0 - 15A	0 - 20A	0 - 20A
Max DC input Isc current	15A	15A	20A	27A	27A
Output (AC)					
Nominal AC output power	1600W	2000W	2850W	4200W	4600W
Max. AC power	1650W	2200W	3000W	4400W	5000W
Max. output current	8A	11A	13A	21A	23A
Nominal AC voltage range	220V-240V / 180V-280V	220V-240V / 180V-280V	220V-240V / 180V-280V	220V-240V / 180V-280V	220V-240V / 180V-280V
AC grid frequency range	50Hz, 60Hz / ± 5Hz	50Hz, 60Hz / ± 5Hz	50Hz, 60Hz / ± 5Hz	50Hz, 60Hz / ± 5Hz	50Hz, 60Hz / ± 5Hz
Phase shift (cos φ)	1	1	1	1	1
THDI	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency					
Max. efficiency	97%	97%	97%	97.8%	97.8%
Euro-eta	96%	96%	96.5%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices					
DC reverse polarity protection	yes	yes	yes	yes	yes
AC short-circuit protection	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes
General Data					
Dimensions (W / D / H) in mm	362/329/132	362/329/132	362/329/132	406/406/192	406/406/192
Weight	11.5KG	11.7KG	12.2KG	21KG	21KG
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Consumption: operating (standby)/ night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W
Topology	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling concept	No fan	No fan	No fan	No fan	No fan
Installation: Indoors / Outdoors (IP65)	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes
Altitude	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating
Humidity	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation
Features					
DC connection:(MC3/MC4/H4)	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes
AC connection: Terminals	yes	yes	yes	yes	yes
LCD display	yes	yes	yes	yes	yes
Interfaces: Bluetooth/RS485/RS232	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt
Certificates and Approvals					
CE / TUV,EN50178, VDE0126-1-1, EN61000-3-2 EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 IEC-62109,DK5940,G83,RD1663					