

# 20KTL



## Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor adjustment from 0.8 overexcited to 0.8 underexcited



## Efficient

- Max. efficiency at 98.0%
- Film capacitor, increase system reliability
- Wide DC input voltage range, max. 1000V



## Flexible

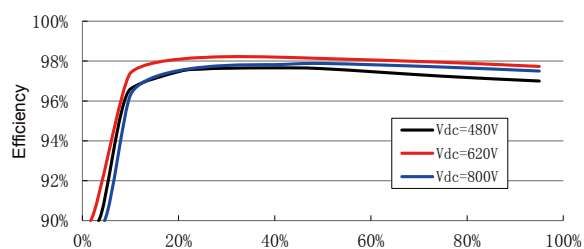
- Handy and light, easy to handle without lift machinery assistance, lower the cost of installation and maintenance
- DC switch, safe and convenient for maintenance
- Dual MPPT



## Qualified

- TÜV, CE, DK5940, G59/2, AS4777, BDEW, VDE AR N 4105, CGC certified, compliance with Italian medium voltage grid requirement

## Efficiency Curve



## Input Side Data

Max. PV input power	21000W (10500W/10500W)
Max. PV input voltage	1000V
Startup voltage	300V
Nominal input voltage	620V
MPP voltage range	280~950V
MPP voltage range for nominal power	480~800V
No. of MPPTs	2
Max. number of PV strings per MPPT	3
Max. PV input current	42A(21A/21A)
Max. current for input connector	12A

## Output Side Data

Nominal AC output power	20000W
Max. AC output power (PF=1)	22200W
Max. AC output apparent power	22200VA
Max. AC output current	33A
Nominal AC voltage	3/N/PE, 230/400Vac
AC voltage range	310~480Vac
Nominal grid frequency	50Hz/60Hz
Grid frequency range	47~53Hz/57~63Hz
THD	<3% (nominal power)
DC current injection	<0.5 %In
Power factor	>0.99@default value at nominal power, adj. 0.8 overexcited~0.8 underexcited

## Protection

Anti-islanding protection	Yes
LVRT	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC fuse	No
Overvoltage protection	Varistors

## System Data

Max. efficiency	98.00%
Max. European efficiency	97.30%
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25~60°C(>45°C derating)
Allowable relative humidity range	0~100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (>3000m derating)
Display	Graphic LCD
Communication	RS485 (RJ45 connector)
DC connection type	MC4
AC connection type	Plug and play connector
Certification	EN62109-1, EN62109-2, EN61000-6-2, EN61000-6-3, VDE0126-1-1, CEI-021, AS/NZS3100, AS4777.2, AS4777.3, VDE-AR-N-4105, BDEW, CGC

## Mechanical Data

Dimensions (W*H*D)	648*686*246mm
Mounting method	Wall bracket
Weight	55kg

## Circuit Diagram

