

# TBEA 特变电工

Excellent Green and Smart Energy Service Provider

## TS40KTL



Max. conversion efficiency of 99% ; European efficiency of 98.7%.



Natural convection heat dissipation; under altitude of 3000m without derating.



Complete thin-film capacitor design ensures definite designed service life of 25 years.



Manual installation, without requiring the lifting equipment.



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Company Website



Wechat Platform

Model	TS40KTL
<b>Input (DC)</b>	
Max. DC Power	45kW
Start-up voltage	565V
Rated input voltage	720V
Max. input voltage	1000V
MPPT voltage range	565V~1000V
MPPT voltage range ( Fully-loaded )	565V~800V
Max. input current	80A
Number of independent MPPT inputs	1
Number of DC inputs	8
Allowable Max.current at input terminal	15A
<b>Output (AC)</b>	
Max.AC Power	44kW
Max. apparent power	44kW
Max. output current	63.8A
AC nominal voltage	3/PE 230/400V
AC voltage range	320~440Vac
Ac frequency	50Hz
Ac frequency range	45Hz~55Hz
DC current injection	< 0.5%
Adjustable power factor	0.8 ( leading ) -0.8(lagging) adjustable
Max.THd	< 3%
<b>System parameters</b>	
Max. efficiency	99.1%
Chinese weighted efficiency	98.49%
Operating temperature range	-25~60℃ ( > 50℃ derating )
Max. permissible value for relative humidity	0~100%
Max. operating altitude	without derating ≤3000m
Degree of protection	IP65
Isolation type	Transformerless
Max.self-consumption(night)	< 1W
Max.self-consumption(operation)	< 40W
Cooling concept	Natural cooling
Noise emission	< 50dB
<b>Protection function</b>	
Stand-alone grid detection	Yes
Zero voltage ride through	Yes
DC Switch	Yes
DC Fuse	Yes
Insulation monitoring	Yes
AC short-circuit protection	Yes
Surge overcurrent protection	Yes
Power grid voltage frequency protection	Yes
By-pass current detection	Yes
Lighting protection failure detection	Yes
<b>Mechanical data</b>	
Dimensions(W/H/D)	520mm × 670mm × 300mm
Weight	50kg
<b>Display and communication</b>	
Display	LED
Communication interfaces	RS485/PLC
Communication protocol	Modbus
<b>Production certifications</b>	
CQC, TUV	