

## TC2500KH-O



Machine protection IP54, Control part of the protection IP65 Extremely reliable;



Three-level circuit with maximum efficiency > 99%;



High power density, footprint than traditional models by 50%;



The second generation suppresses and repairs the PID effect function to improve the life of the PV system.



Model	TC630KH-O	TC1250KH-O	TC2000KH-O	TC2500KH-O
<b>Input (DC)</b>				
Rated DC Power	649kW	1288kW	2062kW	2577kW
Rated input current	1082A	2148A	3436A	4295A
Rated input voltage	600V			
Max. input voltage	1000V			
MPPT voltage range	550~850Vdc			
Max. DC Power	714kW	1417kW	2268kW	2835kW
Max. input current	1299A	2577A	4123A	5155A
Number of MPPT	1	2	3	4
Number of input	≤8	≤16	≤24	≤32
<b>Output (AC)</b>				
Rated output power	630kW	1250kW	2000kW	2500kW
Max. apparent power	693kW	1375kW	2200kW	2750kW
Rated voltage	380V			
Rated output current	957A	1899A	3039A	3798A
Max. output current	1053A	2089A	3343A	4178A
AC frequency	50 Hz			
Max.THDI	<3%			
Adjustable power factor	0.9 ( leading ) -0.9(lagging) adjustable			
<b>System parameters</b>				
Max. efficiency	99%			
Chinese weighted efficiency	98.4%			
Max.self-consumption(night)	< 80W	< 160W	< 240W	< 320W
<b>Environmental parameters</b>				
Operating temperature range	-25~60℃ ( >50℃ derating)			
Max. permissible value for relative humidity	5~95% ( non-condensing )			
Max. operating altitude	4000m, without derating ≤3000m			
Cooling concept	Forced air cooling			
<b>Display and communication</b>				
Display	LCD			
Communication interfaces	RS485			
Communication protocol	Modbus			
<b>Protection function</b>				
Stand-alone grid detection	Yes			
ZVRT	Yes			
Over-voltage/under-voltage protection	Yes			
Over-frequency/under-frequency protection	Yes			
IGBT over temperature protection	Yes			
Anti-discharge protection	Yes			
Over-current protection	Yes			
Overload protection	Yes			
<b>Mechanical data</b>				
Dimensions(W/H/D)	881 ×2400 ×1070mm	1734 ×2400 ×1070mm	2587 ×2400 ×1070mm	3440 ×2400 ×1070mm
Weight	1000kg	2000kg	3000kg	4000kg