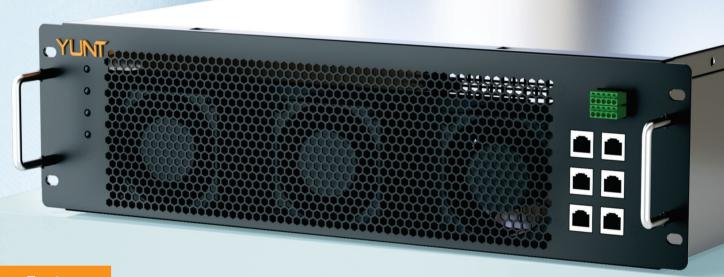


Mercury Series Bidirectional DCDC/MPPT Module

40-60kW



+ Features



Using interleaved parallel technology to reduce battery ripple current and extend battery life;



Supports photovoltaic MPPT and multi-scenario battery charge/discharge applications;



Standard 3U module design, easy to maintain, and convenient for expansion;



The application of SiC-MOS enhances product efficiency, with a maximum efficiency of 99%.



(whatsAPP)



Mercury Series Bidirectional DCDC/MPPT Module

Specifications	(DCDC)Mercury-**			(MPPT)Mercury-**-PV		
	40K	50K	60K	40K	50K	60K
DC low voltage side						
Powerrating	40kW	50kW	60kW	4*10kW	4*12.5KW	4*15KW
Rated current	120A	150A	180A	4*30A	4*37.5A	4*45A
Rated voltage	350V					
	1000V					
Maximun voltage	150~1000V					
/oltage range	340V					
Minimum voltage at full power	150V ≤ Low-Voltage Voltage ≤ High-Voltage Voltage					
Buck mode low voltage side voltage requirements						
ow voltage side starting voltage	150V					
oltage stability/current stabillity			1	%		
OC high voltage side						
Power rating	40kW			kW	60kW	
Rated current			5A	90A		
Rated voltage				OV		
Maximun voltage	1000V					
oltage range	350~1000V					
ull power voltage range	680~950V					
oost mode High voltage side voltage requirements		Low-Voltag	e Voltage ≤ High-		≤ 1000V	
ligh voltage side starting voltage	350V					
oltage stability/current stabillity			1	%		
rotection and function						
Reverse protection	Yes					
use protection	Yes					
Overcurrent protection	Yes					
ver/undervoltage protection	Yes					
Overheat protection	Yes					
ow voltage side short circuit protec	Yes					
nsulation impedance detection	Yes					
Overvoltage rating	Type II					
urge protection rating	Type II					
Basic working mode Circuit operation mode	DCDC:Constant Power、Constant Current、Constant Voltage MPPT:MPPT					
Forward and reverse switching time	Full load switching time 30ms					
			T GII 1000 SWITCHII	ng nine bomb		
oystem parameter opology			Non-I	solated		
P protection grade						
perating temperature range	IP20					
	-40~60℃ (>45℃ Derating operation)					
Relative humidity	<95%No condensation 4000m (>3000m Derating operation)					
Maximum working altitude			4000m (>3000r	n Derating operation	on)	
Maximum efficiency			99	3 %		
Cooling method	Intelligent air cooling					
Communication method	Ethernet/RS485/CAN					
Display	LED					
Maximum number of parallel operations			8	3		
lechanical parameters						
Veight			25	kg		
ize(W*H*D)	444*130*550(Without Terminals)					
nstallation method	Cabinet type fixed installation (left and right ears)					
Compliant with standards						
afetyregulations			IECE2477-1	IEC62109-1		
	EC62477-1, EC62109-1					
EMC	IEC 61000-6-2, IEC 61000-6-3					