

Isuna

12000-20000SPT-US

-  **SiC Technology**
-  **4 MPPT**
-  **ATS Function Inside**
-  **Support 2 Independent Battery Port**
-  **IP66 Protection Grade**
-  **20kW High-power**



Split Phase Datasheet

Model Name	Isuna 12000SPT-US	Isuna 15000SPT-US	Isuna 20000SPT-US
PV Input			
Max. DC Input Power	18kW	22.5kW	30kW
Starting Voltage	95V		
MPPT Voltage Range	80-500V		
Numbers of MPPT	4		
Max. Input String Per MPPT	1/1/1/1	2/2/1/1	2/2/2/2
Max. DC Input Current	16A/16A/16A/16A	32A/32A/16A/16A	32A/32A/32A/32A
Max. Short-circuit Current	20A/20A/20A/20A	40A/40A/20A/20A	40A/40A/40A/40A
On-grid Parameter			
Nominal Output Power	12kW	15kW	20kW
Max. Output Power	24kVA full sun/ 24kVA no sun (10s)	30kVA full sun/ 24kVA no sun (10s)	40kVA full sun/ 24kVA no sun (10s)
Nominal Output Current L-N	50A	62.5A	83.5A
Nominal Grid Voltage	120V/240V/208V (split phase)		
Nominal Input Power from Grid	48kW		
Norminal Input Current from Grid L1-L2	200A		
Off-grid Output			
Nominal Output Power	12kW	15kW	20kW
Nominal Output Current L-N	50A	62.5A	83.5A
Max. Output Current L-N	200A		
Nominal Frequency	50Hz/60Hz		
Generator Input Power	48kW		
Generator Input Current L1-L2	200A		
Off-grid Switching Time	5ms		
Battery Parameter			
Battery Type	Lithium-ion		
Number of Battery Input	2		
Battery Voltage Range	80-495V		
Battery Continue Charging/ Discharging Current	50A/50A		
Efficiency			
Max. Efficiency	97.6%		
CEC Efficiency	97%		
PV to Battery Charging Efficiency	98%		
Max. Battery Charging/ Discharging Efficiency	96.5%		
General Data			
Size(W*H*D)	800mm*470mm*180mm		
Weight	46kg		
Topology	No Isolation		
Ingress Protection Grade	IP66/NEMA 4X		
Operating Temperature Range	-25-60°C, >45°C Derating		
Communication Method	WiFi LAN 4G		
Battery Communication Port	CAN*2/485*2		
External Smart Device Communication	CAN+485		
No-load Loss	60W	90W	100W
ATS	Built-in		
Parallel	Support		
Protection	DC Switch;Ground Fault Detection;PV Quick Shutdown Control;PV Arc Fault Detection;PV Input Lightning Protection;PV Reverse Polarity Protection;Surge Protection;DC Type II /AC Type II;AC Grid Input Circuit Breaker;Battery DC Circuit Breaker		
Certification			
Safety Regulation	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL1699B		
EMC	FCC part15 CLASS B		
Grid Standards	UL1741 SB, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1		