

MIN 2500~6000TL-XH

- Max. efficiency 98.4%
- Dual MPP trackers
- Type II SPD on DC side
- Battery ready, future proof
- 24h self-consumption monitoring



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Datasheet	MIN 2500TL-XH	MIN 3000TL-XH	MIN 3600TL-XH	MIN 4200TL-XH	MIN 4600TL-XH	MIN 5000TL-XH	MIN 6000TL-XH
Input data (DC)							
Max. recommended PV power (for module STC)	5000W	6000W	7200W	8400W	9200W	10000W	10000W
Max. DC voltage	500V	500V	550V	550V	550V	550V	550V
Start voltage				100V			
Nominal voltage				360V			
MPP voltage range	70V-500V	70V-500V	70V-550V	70V-550V	70V-550V	70V-550V	70V-550V
No. of MPP trackers/strings per MPP tracker				2/1			
Max. input current per MPP tracker				13.5A			
Max. short-circuit current per MPP trackers				16.9A			
Input data (DC battery)							
Compatible battery	ARK XH Battery System (5.12kWh~17.9kWh)						
Operating voltage range	360-500V			360-550V			
Max.operating current				17A			
Max.charge power				6000W			
Max.discharge power	2500W	3000W	3600W	4200W	4600W	5000W	6000W
Output data (AC)							
AC nominal power	2500W	3000W	3600W	4200W	4600W	5000W	6000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
Nominal AC voltage(range*)				230V (180-280V)			
AC grid frequency(range*)				50/60 Hz (45-55Hz/55-65 Hz)			
Max. output current	11.3A	13.6A	16A	19A	20.9A	22.7A	27.2A
Adjustable power factor				0.8leading...0.8lagging			
THDI				<3%			
AC grid connection type				Single phase			
Output data (Backup*)							
Max. apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
Nominal AC voltage				230V			
AC grid frequency				50/60Hz			
Efficiency							
Max. efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European efficiency	97.1%	97.1%	97.2%	97.2%	97.5%	97.5%	97.5%
MPPT efficiency				99.9%			
Protection devices							
DC reverse polarity protection				Yes			
DC switch				Yes			
DC/AC surge protection				Type II/Type III			
Insulation resistance monitoring				Yes			
AC short-circuit protection				Yes			
Ground fault monitoring				Yes			
Grid monitoring				Yes			
Anti-islanding protection				Yes			
Residual-current monitoring unit				Yes			
AFCI protection				Optional			
General data							
Dimensions (W / H / D)				375/350/160mm			
Weight				10.8kg			
Operating temperature range				-25°C ... +60°C			
Altitude				4000m			
Self-Consumption night				< 10W			
Topology				Transformerless			
Cooling				Natural convection			
Protection degree				IP65			
Relative humidity				0%~100%			
DC connection				H4/MC4(Optional)			
AC connection				Connector			
Display				OLED+LED/WIFI+APP			
Interfaces: RS485 / USB/Wi-Fi/ GPRS/ RF/LAN				Yes/Yes/Optional/Optional/Optional /Optional			
Warranty: 5years/10 years				Yes/Optional			

CE, IEC62109, AS/NZS 4777.2, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, UTE C 15-712-1, EN 50549, IEC 62116, IEC 61727, G98/G99

* The AC voltage and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.

* Backup power function need a Backup Box accessory.

SOLSOL

SOLSOL s.r.o.
Technická 3029/17 (Placzkova budova B-C),
Brno 616, Czechia 00,
sales@solsol.cz
www.solsol.cz