HYD
10k~20kTL-3PH

10000 / 15000 / 20000

Three-Phase

Energy storage integrated inverter

- 4 MPPT input, more flexible configuration
- APF mode, improved grid power quality
- Diversified work patterns and rapid gains
- Full digital control, higher control accuracy
- Multiple parallel systems, more flexible system solutions
- Off-grid output can be connected to unbalanced load, three-phase separate output is supported

Datasheet	HYD 10000TL-3PH	HYD 15000TL-3PH	HYD 20000TL-3PH
Battery Parameters			
Battery type		Li-Ion	
Battery voltage range		200V-750V	
Rated Charge/Discharge current	25A	25A	2*25A
Charging strategy		Follow BMS	
Rated Charge/Discharge power	10000W	15000W	20000W
Max Charge/Discharge Power	12500W＜10min 15000W＜1min	18750W＜10min 22500W＜1min	25000W＜10min 30000W＜1min
DC Connector/Quality		MC PV Connector/2	
PV Input			
Recommended Max. PV input power	13300W	19950W	26600W
Max input voltage		1000V	
Start-up voltage		180V	
MPPT operating voltage range		160V-960V	
Rated voltage		600V	
Full power MPPT voltage range		500V-850V	
Max. Input current	12.5A/12.5A	25A/25A	25A/25A
Max short-circuit current	16.5A/16.5A	32.5A/32.5A	32.5A/32.5A
MPPT Number/ String number of each MPPT	2/1	2/2+2	2/2+2
Off-Grid Output			
Rate output voltage		230V/400V (+-10%)	
THDv@ full load		3%	
Rate output current	3*14.5A	3*21.8A	3*29A
Max output current	3*22A＜1min	3*33A＜1min	3*43.5A＜1min
Output frequency		50/60HZ	
Rated output power	10000W	15000W	20000W
Parallel connection		Yes	
Single phase output		Yes	
AC terminal		5P Terminal Block	
ON-Grid Output			
Rated output power	10000W	15000W	20000W
Max output power	11000VA	16500VA	22000VA
Max output current	3*16.5A	3*25A	3*33A
Output voltage		230/400V; (184-275V) [According to local standard]	
Output frequency		50Hz/60Hz	
Output power factor		0.8leading- 0.8laging	
THDi@ full load		<3%	
Grid type		3/N/PE	
Efficiency			
Max efficiency	98.0%	98.1%	98.1%
Europe efficiency	97.5%	97.6%	97.6%
MPPT efficiency	99.9%	99.9%	99.9%
Protection			
Input anti-reverse		Yes	
Output over-current		Yes	
Output over-voltage		Yes	
Anti-islanding		Yes	
RCMU		Yes	
Insulation resistance monitoring		Yes	
Surge protection		III	
SPD protection		III	
General Data			
Allowable relative humidity range		0～100%	
Weight	25kg	30kg	35kg
Ambient temperature range		-25℃～+60℃	
Noise		≤45dB(A)	
Max. Operating altitude		2000m	
Topology		Transformer-less	
Cooling	Nature cooling	Fan	Fan
Degree of protection		IP65	
Dimension		560*570*230mm	
Warranty		5 Years or more	
Feature			
DC terminal		MC4	
Display		LCD Graphic	
Monitoring		RS485/WIFI/GPRS/Ethernet	
Battery communication port		CAN	
Meter communication		CAN	
Parallel connection communication		CAN+Sync+Error Diagnosis	
Digital input		6 digital inputs (5V TTL)	
Standard			
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12		
Safety standards	IEC62109-1/2, IEC62040-1, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)		
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50438/EN50549, G83/G59/G98/G99, UTE C15-712-1, UNE 206 007-1		