

DSI TOTAL SOLAR 3P-15K

- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off-grid, and grid-tie with backup
- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control
- Custom-made firmware by ODM contract
- Parallel operation up to 6 units

TOTAL is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



TECHNICAL DATA SHEET

MODEL	DSI TOTAL SOLAR 3P-15K
PHASE	3-phase in / 3-phase out
MAXIMUM PV INPUT POWER	22500 W
RATED OUTPUT POWER	15000 W
MAXIMUM CHARGING POWER	15000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC V voltage	720 VDC / 900 VDC
Start-up V voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)	
Nominal Output V voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	84 - 264.5VAC per phase
Nominal Output Current	21.7A per phase
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart V voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC V voltage	900 VDC
MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers/Maximum Input Current	2 / A: 37.65A; B: 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output V voltage	30 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC V voltage	720 VDC / 900 VDC
Start-up V voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers/Maximum Input Current	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)	
Nominal Output V voltage	30 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 264.5 VAC per phase
Nominal Output Current	21.7A per phase
AC INPUT	
AC Start-up V voltage / Auto Restart V voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output V voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC V voltage	48 VDC
Maximum Charging Current	Default 60A, 5A - 300A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	219 x 650 x 820
Net Weight (kgs)	62
INTERFACE	
Communication Port	RS-232, USB and Dry contact
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-Condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m**