

OpalSwitch

3k~6kD-TL

Single-Phase

02-3000/3600/4000/4600/5000/6000D-TL

KEY FEATURES

BUILT-IN ZERO EXPORT FUNCTION

IP65 INGRESS PROTECTION

MAX. EFFICIENCY UP TO 98.2%

SMART MONITORING, RS485, WIFI / ETHERNET GPRS (OPTIONAL)

2 MPPT HIGH PRECISION STRING DETECTION

I-V CURVE SCANNING FUNCTION

BUILT-IN SOUND AND LIGHT ALARM FUNCTION

MODEL NUMBERS

02-3000D-TL, 02-4000D-TL, 02-5000D-TL,
02-3600D-TL, 02-4600D-TL, 02-6000D-TL.

OpalSwitch

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ABOUT

Opal Switch offers single phase inverters, for smaller residential users. It is a complete package that is small, lightweight with a maximum performance efficiency of 98.2%.

With SolarmanPV, the automatic monitoring by Opal Solar provides you updated performance reports, data analyses and reports irregularities at any time.

At Opal Solar, we will ensure to provide prompt after-service and excellent on-going support to meet your demands so you can relax with ease.

There is a range of models available for you to choose from, depending on your demands, allowing you to harvest the maximum amount of

WARRANTY

5+5 YEAR
PRODUCT WARRANTY

Input (DC)

Recommended Max. PV input power	3990Wp	4790Wp	5320Wp	6120Wp	6650Wp	7980Wp
Max DC power for single MPPT	2000W	2400W	2600W	3000W	3000W	3500W
Number of MPPT trackers				2		
Number of DC inputs				1/1		
Max. Input voltage				600V		
Start-up input voltage				120V		
Rated input voltage				360V		
MPPT operating voltage range				90-580V		
Full power MPPT voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V
Max. Input current per MPPT				11A/11A		
Maximum DC input short circuit current per MPPT				13.2A		

Output (AC)

Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. Output current	13.7A	16.8A	18.2A	21A	22.8A	27.3A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac					
Grid voltage range	180Vac-276Vac (According to local standard)					
Nominal frequency	50Hz/60Hz					
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)					
Active power adjustable range	0~100%					
THDi	< 3%					
Power factor	1 default (adjustable +/-0.8)					
Power limit export	Zero export or adjustable power limit export					

Performance

Max efficiency	98.0%
European weighted efficiency	97.5%
Self-consumption at night	< 1W
Feed-in start power	50W
MPPT efficiency	> 99.9%

Protection

DC reverse polarity protection	Yes
DC switch	Optional
Protection class/overvoltage category	I/III
Input/output MOV (II)	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring
SPD	MOV: Type III standard

Communication

Power management unit	According to certification and request
Standard communication mode	RS485, Wifi/Ethernet/LAN(optional), SD card(optional)
Operation data storage	25 years

General Data

Ambient temperature range	-25°C~+60°C
Topology	Transformerless
Degree of protection	IP65
Allowable relative humidity range	0~100%
Max. Operating altitude	2000m
Noise	< 25dB
Weight	11.5kg
Cooling	Natural convection
Dimension	405*315*135mm
Display	LCD display
Warranty	5 years warranty + 5 years part only warranty
Country of Manufacture	China