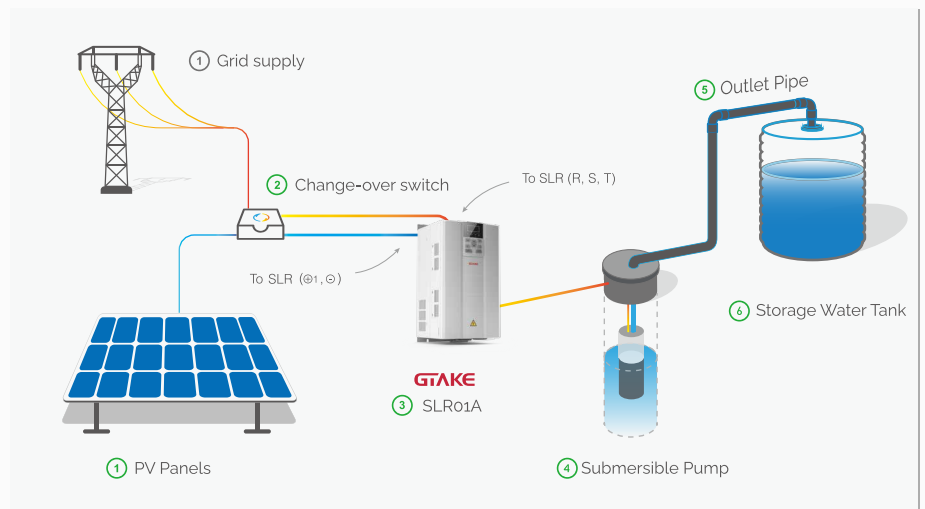




SLR01A

Solar Pump Drives

SLR01A dedicated drive is a decent solution that makes use of solar power as a green and reliable energy source for pumping water.



POWER RATINGS

3 × 380-440 V 0.75 - 75 kW

Steering the power of the sun

ACIM

PMSM

BLDC

Precise **MPPT**

Automatic Run / Sleep

Dry Run Protection

Classified User Mode

Pressure limit mode under power supply from solar panels

Multi-step pressure mode

Pressure control mode under AC power supply from grid or diesel generator

Constant speed mode under AC power supply

PID

Frequent start/stop avoidable in cloudy days

Two modes of flow calculation

Water level control mode

Pump clean function

ModBus, CAN, CANopen & ProfiBus

Preeminent Field-weakening Control

Over Excitation Brake

Mechanical Brake

Restart Upon Power Loss

Cycle-By-Cycle Current Limit

Motor Thermal Protection

Stall Protections

.....

Start Torque @0.25Hz

180%

Overload Capability

200%Speed accuracy $\pm$ **0.2%**

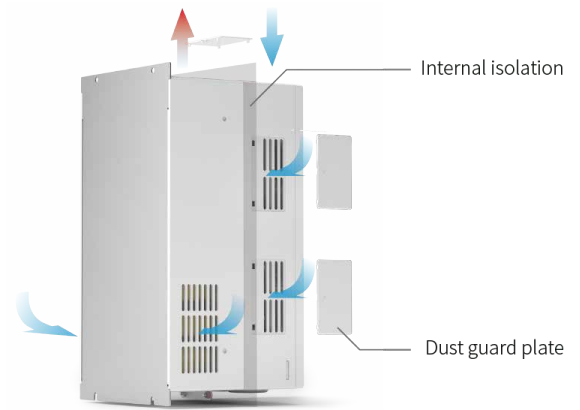
Ambient Temp. °C

50

Speed Regulation

1:200

Torque Response ms

10

TERMINAL

Analog Input $\times 2$ [3]^{*1} Analog Output $\times 1$ [3] Relay Output $\times 1$ [3]

Digital Input $\times 6$ [8] Digital Output^{*2} $\times 2$ Communication Port^{*3} $\times 1$

Optional Board Interface $\times 1$ for Fieldbus options or I/O options

^{*1} A [B]: A - local B - extensible

^{*2} One of which (Y2/DO) supports high-speed pulse output

^{*3} RS485/ModBus ONLY 4800/9600/19200/38400/57600/115200bps Maximum distance - 500m

OPTION

Fieldbus options

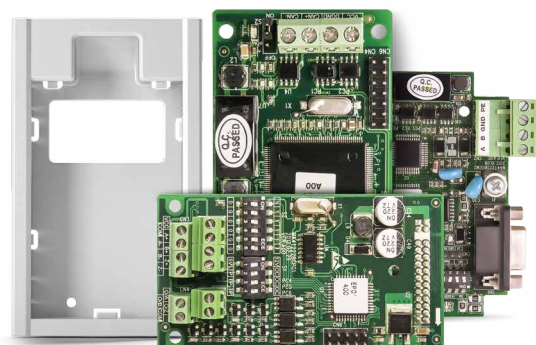
EPC-CM1 **CAN**
EPC-CM2 **PROFIBUS**
EPC-CM3 **CANopen**

I/O options

EPC-TM1 Analog & Digital
EPC-TM2 PT100 & I/O
EPC-VD1 Voltage
EPC-VD2 Bus voltage detection & for optimized flying start
EPC-IM1 Analog for injection
EPC-IM2 Current analog
EPC-IM3 Current detection
EPC-RT1 Real-time clock

Others

KBU-DZ1 Base for keypad
APP for PC **FREE** Gate Monitoring
APP for PC **FREE** Firmware Update Tool



MODEL

4T1.5B-G4



G4: With current measuring unit
B: With built-in PV short circuit control mode
Rated power, kW
T: Tri-phase S: Single phase
2: 200V level 4: 400V level

Model	Power Rating (kW)	Rated Output Current (Amps)	Input Current (Amps)*4	Applicable Motor (kW)	Model	Power Rating (kW)	Rated Output Current (Amps)	Input Current (Amps)*3	Applicable Motor (kW)
4T0.75B	0.75	2.5	4.2/3.5	0.75	4T18.5	18.5	39	54/44	18.5
4T1.5B	1.5	3.8	6.1/5.0	1.5	4T22	22	45	61/50	22
4T2.2B	2.2	5.5	7.4/6.0	2.2	4T30	30	60	80/65	30
4T3.7B	3.7	9.0	12.9/10.5	3.7	4T37	37	75	98/80	37
4T5.5B	5.5	13	17.9/14.6	5.5	4T45	45	91	116/95	45
4T7.5B	7.5	17	25/20.5	7.5	4T55	55	112	145/118	55
4T11B	11	24	36/29	11	4T75	75	150	192/157	75
4T15B	15	30	43/35	15					

*4 A/B : A- Max. DC input current ; B - 3-phase rated AC input current.

DC Power Supply

4T : 230V DC ~ 800V DC (620V DC Recommended)

AC Power Supply

3-Phase : AC 380V / 400V / 415V / 440V

**Recommended
solarpanel
configuration**

Model	Panel open circuit voltage 18V±2V		Panel open circuit voltage 30V±2V		Panel open circuit voltage 36V±2V	
	Power	Panels per string*	Power	Panels per string*	Power	Panels per string*
SLR01A-4T0.75B	30W	34×1	50W	20×1	60W	18×1
SLR01A-4T1.5B	60W	34×1	100W	20×1	120W	18×1
SLR01A-4T2.2B	90W	34×1	150W	20×1	160W	18×1
SLR01A-4T3.7B	150W	34×1	250W	20×1	270W	18×1
SLR01A-4T5.5B	110W	34×2	180W	20×2	200W	18×2
SLR01A-4T7.5B	145W	34×2	250W	20×2	270W	18×2
SLR01A-4T11B	140W	34×3	240W	20×3	270W	18×3
SLR01A-4T15B	195W	34×3	250W	20×4	270W	18×4
SLR01A-4T18.5	240W	34×3	240W	20×5	270W	18×5
SLR01A-4T22	280W	34×3	290W	20×5	270W	18×6
SLR01A-4T30	290W	34×4	280W	20×7	300W	18×7
SLR01A-4T37	290W	34×5	300W	20×8	300W	18×9
SLR01A-4T45	290W	34×6	300W	20×10	300W	18×11
SLR01A-4T55	270W	34×8	300W	20×12	300W	18×13
SLR01A-4T75	290W	34×10	300W	20×16	300W	18×18

The recommended solar panel open voltage is 360V for 2S/2T models and 620V for 4T models, in order to have a high efficiency.

4T0.75B~3.7B	
W×H×D - 93×190×152	
Mounting dimensions	70×180×152



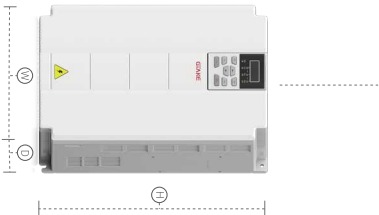
4T5.5B	
W×H×D - 120×245×169	
Mounting dimensions	80×233×169

4T7.5B~11B	
W×H×D - 145×280×179	
Mounting dimensions	105×268×179

4T15B~22B	
W×H×D - 190×365×187	
Mounting dimensions	120×353×187



4T30~37	
W×H×D - 250×400×235	
Mounting dimensions	230×380×235



4T45~55	
W×H×D - 300×545×255	
Mounting dimensions	245×523×255



4T75(B)	
W×H×D - 385×670×261	
Mounting dimensions	260×640×261



APPLICATIONS

Water Treatment

Community Water Supply

Farm Irrigation

Pasture Water Supply

Swimming Pool Water Supply

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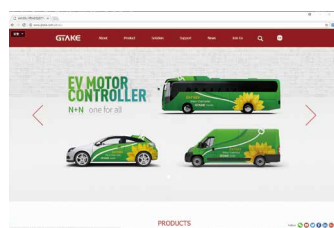
SLR series solar pump dedicated drives are applied to both asynchronous motor and PMSM. The mains input can be solar panel DC, AC single phase, or AC three phase. Users are free to choose a single-phase motor or three-phase motor according to the wish. Thanks to the inbuilt MPPT (Maximum Power Point Tracking) function, SLR drives have a fast response to the sunlight change and reach maximal power point promptly, making the system work at its highest efficiency always.

MORE

Further information is procurable through following sources:



PRODUCT CATALOG



OFFICIAL WEBSITE



@GtakeElectric



@Gtake

SOCIAL MEDIA



JIANGSU GTAKE ELECTRIC CO., LTD.

www.gtake.com.cn/en

ADDR. : Building 10, Zhong-yun-tai Industrial Park, Tangtou Road NO.1, Bao'an District, Shenzhen, China, 518108

T +86 755 86392601

F +86 755 86392625

M info@gtake.com.cn

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