CUBIK

The Enclosure Company

SOLAR

PV SOLUTIONS

RESIDENTIAL & COMMERCIAL

www.cubik.lk

COMPANY OVERVIEW

Cubik Engineering Co. (Pvt) Ltd established in 2006 as a supplier of electrical enclosures & switchboard accessories. It has now developed as a reputed company supplying electrical enclosures, cable management systems, switchgears, solar PV products, control & wiring accessories, and many other electrical installation products.

We supply total range of solar PV products directly imported from top manufacturers to ensure the quality & best prices. Steel outdoor enclosures & cable management system products are manufactured in our production facility. We supply solar PV products for off-grid, hybrid & on-grid systems in residential, commercial buildings, and factories as rooftop or ground-mounted installations.

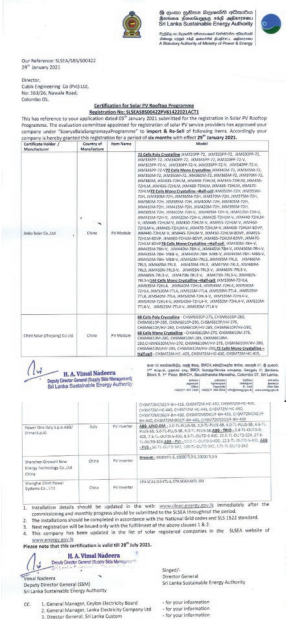
We are a reliable, trusted supplier with more than 15 years of experience in the electrical industry supplying high-quality products. Our marketing & technical teams give best customer service throughout the project to successful completion of the project.

We do not undertake projects but supply products to EPC (Engineering, Procurement and Construction) contractors & installers. Thereby guarantee the best prices and trusted services to our customers. Solar installation products are available ex-stock* & we can supply any specialized products from our strong supplier base.

* subject to conditions

Approvals & Certifications

" WE ARE A SRI LANKA SUSTAINABLE ENERGY AUTHORITY APPROVED SUPPLIER"



Registration No: SLSEA/SBS/S00422

WARRANTY

Solar Panels		**10 Years**
Solar Inverters -	Off-Grid	**1 Year**
	Hybrid	**1 Year**
	On-Grid	**5 Years**
Solar Batteries		**1 Year**
Solar Switchgears - Isolators - AC/DC		**1 Year**
	MCB - DC	**1 Year**
	MCCB - DC	**1 Year**
Energy Meters		**1 Year**
Testers		**1 Year**
Steel Enclosures		**1 Year**
Cable Management System		**1 Year**
Non Metalic Enclosures		**1 Year**

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Please refer relevant catalogues for below solar installation products

Metal Enclosures - Outdoor	→	TIMIK & MODIK Enclosure Catalogues
Non Metalic Enclosures	→	Non Metalic Enclosures Catalogue
Cable Management System	→	PRISMA Cable Management System Catalogue
Tools & Testers	→	Tools and Testers Catalogue
Copper Lugs	→	Switchboard & Wiring Accessories Catalogue
DIN Rail Terminal Stations	→	Switchboard & Wiring Accessories Catalogue
Cable Glands	→	Switchboard & Wiring Accessories Catalogue
Wiring Accessories	→	Switchboard & Wiring Accessories Catalogue

SOLAR PANELS

TRINASolar is one of the world's leading PV module brand in solar energy industry.
TRINAsolar solar panels are reliable, efficiency product producing high module power output.

TRINAsolar solar panels improve it performance according to indusrtry requirements of installers, developers, distributors & other partners.

TRINA - China

Ordering Information

Order No	Model No	Product	Watt	Type
298 100	TSM-DE17M(II)	Solar Panel	455	Mono crystalline
-	TSM-DE19	Solar Panel	550	Mono crystalline

Technical Specifications

TRINA - 455W

144 LAYOUT MONOCRYSTALLINE MODULE
435-455W POWER OUTPUT RANGE
20.8% MAXIMUM EFFICIENCY
0~+5W POSITIVE POWER TOLERANCE

High power

•Up to 455W front power and 20.8% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings

•Lower resistance of half-cut and good reflection effect of MBB ensure high power

High reliability

• Ensured PID resistance through cell process and module material control

• Resistant to salt, acid and ammonia

•Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

High energy generation

• Excellent IAM and low light performance validated by 3rd party cell process and module material optimization

• Lower temp coefficient (-0.36%) and NMOT bring more energy leading to lower LCOE

•Better anti-shading performance and lower operating temperature

Temperature Ratings

NMOT(Nominal Module Operating Temperature)	41ºC (±3ºC)
Temperature Coefficient of Pmax	'- 0.36% /ºC
Temperature Coefficient of Voc	'- 0.26% /ºC
Temperature Coefficient of Isc	'0.04% /ºC

Maximum Ratings

Operational Temperature	'-40~+85ºC
Maximum System Voltage	'1500V DC (IEC)
Max Series Fuse Rating	20A

TRINA - 550W

560W	0~+5W	21.2%
MAXIMUM POWER OUTPUT	POSITIVE POWER TOLERANCE	MAXIMUM EFFICIENCY

High customer value

•Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time

•Lowest guaranteed first year and annual degradation;

•Designed for compatibility with existing mainstream system components

•Higher return on Investment

High power up to 555W

•Up to 21.2% module efficiency with high density interconnect technologization;

• Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

High reliability

• Minimized micro-cracks with innovative non-destructive cutting technology

• Ensured PID resistance through cell process and module material control

• Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield

• Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications

• The unique design provides optimized energy production under inter-row shading conditions

• Lower temperature coefficient (-0.34%) and operating temperature

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of Pmax	'=- 0.34%/°C
Temperature Coefficient of Voc	'- 0.25%/°C
Temperature Coefficient of Isc	'0.04%/°C

MAXIMUM RATINGS

Operational Temperature	'-40~+85°C
Maximum System Voltage	'1500V DC (IEC)
	1500V DC (UL)
Max Series Fuse Rating	30A

ELECTRICAL DATA (STC)

	TRINA - 455W	TRINA - 550W
Peak Power Watts-Pmax (Wp)*	455	550
Power Tolerance-Pmax (W)		' 0 ~ +5
Maximum Power Voltage-Vmpp (V)	41.2	31.6
Maximum Power Current-Impp (A)	11.06	17.40
Open Circuit Voltage-Voc (V)	49.8	37.9
Short Circuit Current-Isc (A)	11.61	18.52
Module Efficiency η m (%)	20.8	21.0

STC: Irradiance 1000W/mS, Cell Temperature 25°C, Air Mass AM1.5.

*Measuring tolerance: ±3%.

	TRINA - 455W ELECTRICAL DATA (NMOT)	TRINA - 550W ELECTRICAL DATA (NOCT)
Maximum Power-PMAX (Wp)	344	417
Maximum Power Voltage-VMPP (V)	38.9	29.3
Maximum Power Current-IMPP (A)	8.86	14.19
Open Circuit Voltage-VOC (V)	47.0	35.7
Short Circuit Current-ISC (A)	9.35	14.92

NMOT: Irradiance at 800W/mS, Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL DATA

	TRINA - 455W	TRINA - 550W
Solar Cells	Monocrystalline	Monocrystalline
Cell Orientation	144 cells (6 × 24)	110 cells
Module Dimensions	2102 ×1040× 35 mm (82.76 × 40.94 × 1.38 inches)	2384×1096×35 mm (93.86×43.15×1.38 inches)
Weight	24.0 kg (52.9lb)	28.6 kg (63.1 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA	EVA/POE
Backsheet	White	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm²(0.006 inches²), Portrait: N 280mm/P 280mm (11.02/11.02inches) Landscape: N 1400 mm / P 1400 mm (55.12/55.12 inches)	Photovoltaic Technology Cable 4.0mm2 (0.006 Inches²) Portrait: 350/280 mm (13.78/11.02 Inches) Length can be customized Landscape 1400/1400mm (55.1/55.1 Inches)
Connector	MC4 EVO2 / TS4*	MC4 EVO2 / TS4*

SOLAR INVERTERS

Off Grid - Inverters

SAKO is ideal solution for off grid hybrid inveters. SAKO range has different type of solar inverters use for off grid solar systems install in domestic & commercial installations.

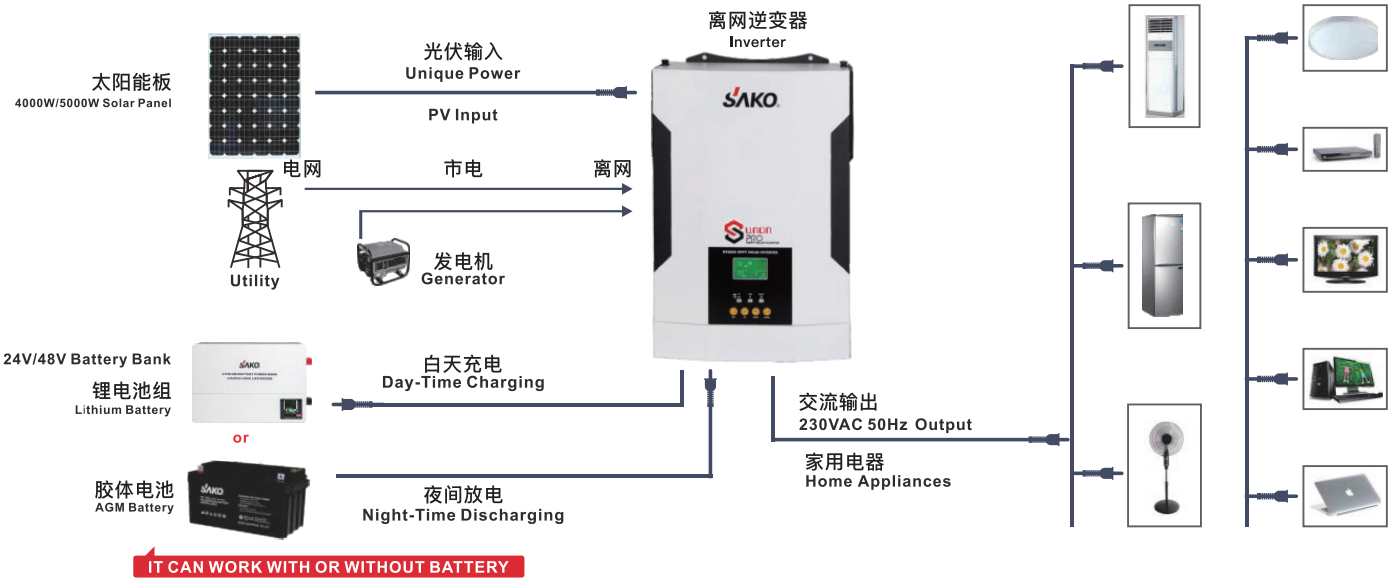
We can supply any model of SAKO solar inverters on request.

SAKO - China

Ordering Information

Order No	Model No	Product	Watt	Phase	Voltage
297100	SUNON - PRO - 3.5kW/24V	Off Grid Inverter - Hybrid	3.5kW	1Phase	24V
297101	SUNON - PRO - 5.5kW/48V	Off Grid Inverter - Hybrid	5.5kW	1Phase	48V

Technical Specifications



Model	SUNON PRO 3.5K	SUNON PRO 5.5K
The rated power	**3500VA/3500W**	**5500VA/5500W**
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280VAC(UPS), 90-280VAC(Appliances)	
Frequnecy Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Model)	230VAC ± 5%	
Surge Power	7000VA	11000VA
Efficiency(Peak)	>90%	
Transfer Time	10MS(UPS),20MS(Appliances)	
Wave form	Pure sine wave	
No load current	1.0A	1.1A
BATTERY		
Battery voltage	24VDC	48VDC
Low battery alarming voltage	22.0VDC	44.0VDC
Low battery cut off protection voltage	21VDC	42VDC
Low battery recovery voltage	23.0VDC	46.0VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	32VDC	64VDC
MPPT SOLAR CHARGER & AC CHARGER		
Maximum PV Array Power	5000W	6000W
MPPT Range at Operation Vol.	120-450VDC	
Maximum PV Array Open Circuit Vol.	500VDC	
Number of MPPT trackers / Max output current	100A	
Maximum AC Charge Current	60A	
Maxmum Charge Current	100A	
Maxmum Efficiency	98%	
	BEST PANEL CONFIGUTATION	
Best Panel configuration	300Wp*9pcs*36V(2700Wp)*2Parallel	330Wp*9pcs*36V(2970Wp)*2Parallel
PHYSICAL		
Products Dimension, D*W*H(mm)	481mm*313mm*117mm	481mm*313mm*117mm
Packing size, D*W*H(mm)	543mm*394mm*204mm	543mm*394mm*204mm
Net Weight (kgs)	9.8KG	10.5KG
G.W. kg	11KG	11.7KG
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operation Temperature	0℃-50℃	

On Grid - Inverters

Growatt is a global leading solar inverter brand. Growatt range has different types of solar inverters use for off-grid, hybrid and on-grid solar systems in residential, commercial & factory installations.

We can supply any model of growatt solar PV inverters on request.

GROWATT - China GROWATT

Ordering Information

Order No	Model No	Product	Watt	Phase	Voltage	MPPT
-	SPH 3600	Residential Inverter	3.6kW	1Phase	42-59V	2
297300	SPH 5000	Residential Inverter	5 kW	1Phase	42-59V	2
297301	MID-15KTL3-X	Rooftop Inverter	15kW	3Phase		2
-	MID-25KTL3-X	Rooftop Inverter	25kW	3Phase		2

Technical Specifications

	SPH 3000	SPH 3600	SPH 4000	SPH 4600	SPH 5000	SPH 6000
DC input data						
Max. recommended PV power	6600W	6600W	6600W	8000W	8000W	8000W
Start voltage	150V					
Max. PV voltage	550V					
PV voltage range	120V-550V					
MPPT voltage range/	150V-550V /360V					
Max. input current of tracker A/B	13.5A/13.5A					
Number of MPP trackers / strings per MPP tracker	2/1					
AC Output						
Rated AC output power	3000W	3680W	4000W	4600W	4999W	6000W
Max. AC apparent power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. output current	16A	16A	22A	22A	22A	27A
Nominal AC output voltage	230V					
Nominal grid frequency	50/60Hz, ±5Hz					
Power factor at rated power	1					
Displacement power factor	0.8leading…0.8lagging					
THDI	<3%					
AC output power (Backup)						
Max. output power	3000W					
Rated AC output voltage	230Vac					
Rated AC output frequency	50/60Hz					
Automatic switchover time	<0.5S					
Battery data						
Battery voltage range	42~59V					
Max. charging voltage	58V					
Max charging and discharging current	66A					
Max charging and discharging power	3000W					
Battery type	Lithium /Lead-acid					
Capacity of battery	50-2000AH					
Effciency						
Max. effeclency	97.5%	97.5%	97.5%	97.6%	97.6%	97.7%
Euro European efficiency	97.0%	97.0%	97.0%	97.1%	97.1%	97.1%
MPPT effciency	99.9%					
Protection devices						
DC switch	Yes					
DC reverse polarity protection	Yes					
Battery recerse protection	Yes					
Output over current protection	Yes					
Output over voltage protection	Yes					
Ground fault monitoring	Yes					
Grid monitoring	Yes					
Integrated all-pole sensitive leakage	Yes					
Dimensions (W / H / D)	458/565/180mm					
Dimensions (W / H / D)	27kg					
Operating temperature range	–25°C ... +60°C					
Altitude	2000m					
Self- Cosumption	< 3 W					
Topology(solar)	Transformerless					
Topology(battery)	HF transformer					
Cooling concept	Natural					
Environmental protection Rating	IP65					
Relative humidity	100%					
DC connection	MC4/H4(Optional)					
AC connection	Connector					
Interfaces: RS232/RS485/CAN/USB	Yes					
Monitor : RF/WIFI/GPRS	Optional					
Display	LCD+LED					
Warranty: 5 years / 10 years	Yes /Optional					
CE, IEC62109, G98/G99, VDE0126-1-1\$4777, AS/NZS 3100, CEI 0-21, VDE-AR-N4105, UTE C 15-712, EN50438, EN50549, IEC 61727, IEC 62116, C10/11						

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Technical Specifications

Datasheet	MID 15KTL3-X	MID 17KTL3-X	MID 20KTL3-X	MID 22KTL3-X	MID 25KTL3-X
Input data (DC)					
Max. recommended PV power (for module STC)	22500W	25500W	30000W	33000W	37500W
Max. DC voltage	1100V				
Start Voltage	250V				
Nominal voltage	580V				
MPPT voltage range	160V-1000V				
No. of MPP trackers	2				
No. of PV strings per MPP tracker	2	2	2	2	2/3
Max. input current per MPPT tracker*	25A	25A	25A	25A	25A/37.5A
Max. short circuit current per MPPT	32A	32A	32A	32A	32A/48A
Output data (AC)					
Rated AC output power	15000W	17000W	20000W	22000W	25000W
Max. AC apparent power	16600VA	18800VA	22000VA	24400VA	27700VA
Nominal AC voltage(range*)	220V/380V, 230V/400V (340-440V)				
AC grid frequency;(range*)	50/60 Hz (45-55Hz/55-65 Hz)				
Max. output current	24.2A	27.4A	31.9A	35.5A	40.2A
Adjustable power factor	0.8leading...0.8lagging				
THDi	<3%				
AC grid connection type	3W+N+PE				
Efficiency					
Max.efficiency	98.75%				
European efficiency	98.6%				
MPPT efficiency	99.9%				
Protection devices					
DC reverse polarity protection	Yes				
DC Switch	Yes				
AC/DC surge protection	TypeII/Type II				
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				
String monitoring	Optional				
AFCI protection	Optional				
General data					
Dimensions (W / H / D)	525/395/222mm				
Weight	23kg				
Operating temperature range	-25 °C ... +60 °C				
Self-Consumption (night)	<1W				
Topology	Transformerless				
Cooling	Smart air cooling				
Protection degree	IP65				
Relative Humidity	0~100%				
Altitude	4000m				
DC connection	H4/MC4(Optional)				
AC connection	Cable gland+OT terminal				
Display	OLED+LED/WIFI+APP				
Interfaces: RS485 / USB / WiFi/ GPRS / RF/ LAN	Yes/Yes /Optional/Optional/Optional/Optional				
Warranty: 5 years / 10 years	Yes /Optional				
CE, VDE0126, Greece, EN50549, C10/C11, UTE C 15-712, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger, G98/G99, G100, UNE217001, UNE206007, PO12.2, KSC8565					

* The AC voltage range and frequency range may vary depending on specific country grid standard.All specifications are subject to change without notice.
* Only the latest version with max. input current 13.5A per string, for details please contact Growatt.

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SOLAR BATTERIES

Solar batteries have 15-20 years designing life and ideal for standby or frequent cyclic discharge applications under extreme environments.

Lithium batteries are supported to latest HESS battery system.

All batteries are high energy, high power density, long service life and smart designs as per advanced techniques.

SUNPAL - China Sunpal Making more power

Ordering Information

Order No	Model No	Product	Type	Voltage	Ampere
299 100	SP48100	Lithium Battery	Rack type	48V	100AH
299 101	SP5000U	Lithium Battery	Power wall type	48V	100AH
299 200	6-CNF-100	Deep Cycle Gel Battery		12V	100AH

Technical Specifications

Model No.	SP48100
Nominal Voltage	48V
Nominal Capacity	4800Wh
Dimensions (LxWxH)	442×480×220mm
Weight	48kg
Discharge Voltage	45-54V
Charge Voltage	52.5-54V
Max Discharge Current	100A
Max Charge Current	100A
Communication	RS32, RS485, CAN
Charging Temperature	0°C-50°C
Discharging Temperature	-10°C-50°C
Shelf Temperature	-20°C-60°C
Certification	IEC/CE/UN38.3
Design life	10+ Years(25°C/77°F)
Cycle Life	>6000(80%DoD)

Model No.	SP5000U
Voltage	48V
Capacity	100Ah
Energy	4.8 kWh
Operation Voltage	42-54 Vdc
Max. Charging Voltage	54 Vdc
Max. Charging and Discharge Current	100A
Max Power	4800 W
Life Time(25°C)	10 years
Life Cycles(80% DOD,25°C)	6000 Cycles
Storage time / Temerature	5 months @ 25°C; 3 months @ 35°C; 1 months @ 45°C
Operation Temperature	-20°C to 60°C @ 60+/- 25% Relative Humidity
Storage Temperature	0°C to 45°C @ 60+/- 25% Relative Humidity
Lithium Battery Standard	UL 1642, IEC62619, UN38.3, ROSH, CE-EMC
Enclosure Protection Rating	IP21
Dimenslone(LxWxH)	680x480x180(220)mm
Weight	58.5 kg

Model No.	6-CNF-100
Cells Per Unit	6
Voltage per Unit	12
Capacity	100Ah @ 20hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 30.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 7.5 mΩ
Terminal	F12(M8) / F5(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	20.0A
Reference Capacity	C3 68.1AH C5 78.5AH C10 87.7AH C20 100.0AH
Float Charging Voltage	13.6 V ~ 13.8 V @ 25°C Temperature Compensation:- 3mV1°C / Cell
Cycle Use Voltage	14.2 V ~ 14.4 V @ 25°C Temperature Compensation:- 4mV1°C / Cell
Operating Trmperature Range	Discharge:- 40°C ~ 60°C Charge:- 20°C ~ 50°C Storage:- 40°C ~ 60°C
Normal operating Temperature Range	25°C ± 5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S UL94-HB, UL94-V0 Optional

BATTERY CABINETS

International standard battery cabinets are used for BESS (Battery Energy Storage System) in professional solar installations in homes, commercial buildings, hotels, restaurants and many more commercial & industrial locations.

Available required accessories to mount batteries, inverters, switchgears & ample space for cabling.

MODIK - Sri Lanka

Ordering Information

Order No	Model No	Product	Size
799950	BC - WM - 6.6	Battery Cabinet - Wall Mounting	600x600x250mm
799951	BC - WM - 6.8	Battery Cabinet - Wall Mounting	600x800x250mm
799949	BC - WM - 8.8	Battery Cabinet - Wall Mounting	800x800x250mm
799948	BC - WM - 8.10	Battery Cabinet - Wall Mounting	800x1000x250mm
799888	BC - FSR - 6.18	Battery Cabinet - FS - 19" Rack Mountable	600x1800x600mm
799889	BC - FSR - 6.9	Battery Cabinet - FS - 19" Rack Mountable	600x900x600mm
799981	BC - FSHD - 6.8	Battery Cabinet - Heavy Duty - Free Standing	600x800x300mm
799980	BC - FSHD - 6.16	Battery Cabinet - Heavy Duty - Free Standing	600x1600x300mm

* Mounting accessories are available.

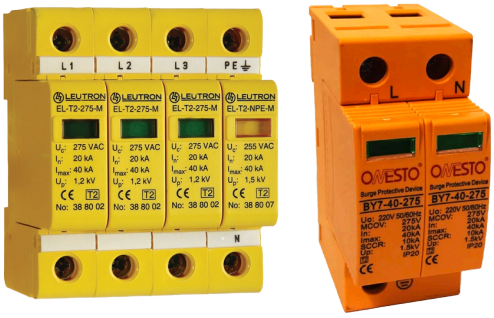
Technical Specifications

Battery Cabinet Slim - Wall Mounting
- Free Standing

Battery Cabinet - Heavy Duty - Free Standing

Battery Cabinet - Rack Mountable - Free Standing

SURGE PROTECTIVE DEVICES



High quality, reliable surge arresstors are available in difference brands for AC & DC applications.
Surge arresters are calibrated for continuous maximum operating voltage of 1000V.

The Surge arrestors are packed with high-pressure sensors to detect failures.

Surge arrestors are made from high-quality materials to prevent damages from weather and lightning.

Leutron - German

Ordering Information

Order No	Model No	Product	Phase	Max. Discharge current	Type	Poles
270100	EL-T2/1+1-275	Surge voltage arrestor	Single	40 kA	AC	2
270110	EL-T2/3+1-275	Surge voltage arrestor	Three	40 kA	AC	4
270200	CT PV-T2/2-0/1000	Surge Protector Device type 2	-	15 kA	DC	-

Technical Specifications

Technical Data		EL-T2/1+1-275-FM	EL-T2/3+1-275-FM
IEC category		Type 2 /class II	Type 2 /class II
Nominal voltage AC	UN	230 V~	230 V~
Max. continuous operating voltage AC (50/60 Hz)	Uc	275 V~	275 V~
Nominal discharge current (8/20 µs)	In	20 kA	20 kA
Max. impulse discharge current (8/20 µs)	Imax	40 kA	40 kA
Protection level at In (8/20 µs)	Up	≤ 1,2 kV	≤ 1,2 kV
Protection level at 5 kA	Up	≤ 0,9 kV	≤ 0,9 kV
Protection level N-PE	Up	≤ 1,5 kV	≤ 1,5 kV
Follow-on current extinguishing capability AC N-PE	Ifi	100 Aeff	100 Aeff
Short-circuit withstand capability at max. back-up fuse	Ik	25 kAeff	25 kAeff
Max. acceptable fuse or back-up fuse		125 A gG	125 A gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5 mm² solid/flexible	1.5 mm² solid/flexible
Max. conductor cross section		35 mm² stranded/ 25 mm² flexible	35 mm² stranded/ 25 mm² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20
Dimension (DIN 43880)		2 TE	4 TE
Max. operating voltage remote contact FM		250 V AC/125 V DC	250 V AC/125 V DC
Max. operating current remote contact FM		1 A AC/200 mA DC	
Max. connection torque for terminals		3.5 Nm	3.5 Nm
Power supply system		1 phase TNS and TT system	3 phase TT system
Article - No		38 81 72	38 81 16

Technical Data	CT PV-T2/2-0/1000
No.of pole	2P
Rated voltage	1000Vdc
Norminal discharge current (8/20us)	In=15KA
Type of network systems	PV
Protection Rating	IP20
Temperature Range	-40^{0}C--+80^{0}C
Remote Signal of disconnection	Option
Mounting	DIN rail 35mm Installation
Inflammability Class	UL 94 VO
Material	Thermoplastic Yellow/Black
More	Plug-in replacement module with indicator
Standard	IEC61643-11

Onesto - China ONESTO

Ordering Information

Order No	Model No	Product	Phase	Max. Discharge current	Type	No. of Poles
232210	BY7-40/2-275	Surge Voltage Arrestor	Single	40 kA	AC	2
232220	BY7-40/3+1-275	Surge Voltage Arrestor	Three	40 kA	AC	4
232250	BY7 -40/2-1000	DC Surge Arrestor	-	40 kA	DC	
232205	BY7 -20/1-100	Surge Arrestor	-	20 kA	DC	1

Technical Specifications

Technical Data	BY7-40/2-275	BY7-40/3+1-275
Number of Ports:	One port	One port
Type of network systems:	TN-S,TN-C-S,IT	TN-S,TN-C-S,IT
SPD design topology:	Voltage limiting (L-PE,N-PE)	Voltage limiting (L-PE,N-PE)
SPD design topology	II	II
SPD classified for test class:	1P(1+0),2P(1+1&2+0), 3P(2+1&3+0),4P(3+1&4+0)	
(According to the need of protection mode in the system)		
Nominal discharge current in:	20kA	20kA
Maximum discharge current Imax	40kA	40kA
Location:	Indoor	Indoor
Mounting method:	Fixed	Fixed
SPD Disconnector:Internal Protection function	Thermal	Thermal
Maximum continuous operating voltage : (One value for eash mode of protevtion)	275V	275V
Voltage protection level UP (One value for eash mode of protevtion)	1.2kV	1.2kV
Short circuit current rating ISCCR	800A	800A
Ambient Temperature	-40°C-+80°C	-40°C-+80°C
Relative Humidity	5%RH~95%RH	5%RH~95%RH
Connection:Screw terminal	4 to 25mm2,by busbar	4 to 25mm2,by busbar
Remote signalling of disconnection	optional	optional
Protection Index IP	IP20	IP20

Technical Data	BY7-40/2-1000
Number of Ports	2P
Rated voltage	1000Vdc
Maxium disharge surge current:	Imax=40kA
Norminal discharge current(8/20is)	In=20KA
Voltage protection level	Up=3.23KV
Type of network systems	PV
Protection Rating	IP20
Tempreature Range	-40˚c--+80˚c
Disconnection Indicator	Red
Remote Signal of disconnection	Option
Mounting	DIN rail 35mm installation
Connection	4-25mm², by busbar
Material	PA6UL94-VO
More	Plug-in replacement module with indicator
Standard	IEC61643-11, EN50539-11

Ordering Information

Order No	Model No	Product	Max. Discharge current	Type	Poles
294400	BUD-40/2	Surge Protector Device - 600V,T2	40 kA	DC	2
294401	BUD-40/3	Surge Protector Device - 600V,T2	40 kA	DC	2
294500	BUA-40/3	Surge Protector Device - 385VAC, T2	40 kA	AC	3
294501	BUA-40/4	Surge Protector Device - 385VAC, T2	40 kA	AC	4

Technical Specifications

Model No.	BUD-40/2	BUD-40/2	BUA-40/3	BUA-40/3
Moulds	2	2	3	4
SPD according to EN 50539-11	Type 2	Type 2	Type 2	Type 2
Open Voltage Uoc Max	600V	600V	385V	385V
Max. discharge current (8/20 µs) [(DC+/DC-)-> PE1 (Imax)	40KA	40KA	40KA	40KA
Nominal discharge current (8/20 µs) [(DC+/DC-)-> PE1 (In)	20KA	20KA	20KA	20KA
Volttage Protection level up	≤ 3.8KV	≤ 3.8KV	≤ 1.8KV	≤ 1.8KV
Response Time (tA)	≤ 25 ns	≤ 25 ns	≤ 25 ns	≤ 25 ns
Operating state / fault indication	Green/Red	Green/Red	Green/Red	Green/Red
Remote Signalling Contact (optional)	Changeover contact	Changeover contact	Changeover contact	Changeover contact
For mounting on	35mm DIN rails	35mm DIN rails	35mm DIN rails	35mm DIN rails
Degree of protection	IP20	IP20	IP20	IP20
Certificate	TUV	TUV	CE	CE

ISOLATORS

Different brands of Isolators are available in different current ratings for AC & DC applications.

Onesto - ONESTO®

Ordering Information

Order No	Model No	Product	Pole	Ampere	Voltage
232415	ODD25D2	Din Mount DC Isolators	2Pole	25A	1000
232423	ODD25D4	Din Mount DC Isolators	4Pole	25A	1000
232427	ODD32D2	Din Mount DC Isolators	2Pole	32A	1000
232435	ODD32D2	Din Mount DC Isolators	4Pole	32A	1000
232418	ODD25D22	DC Isolator 20A 800V	2Pole	20A	1000
232516	ODDA32	Din Mount 3+N pole AC Isolator	4Pole	32A	440
232518	ODA40	Din Mount 3+N pole AC Isolator	4Pole	40A	440
232520	ODA63	Din Mount 3+N pole AC Isolator	4Pole	63A	440

Technical Specifications

Model Nos.	ODD25D2	ODD25D4	ODD32D2	ODD32D4	ODD25D22
No. of pole	2Pole	4Pole	2Pole	4Pole	2Pole
Rated voltage			1000V VDC		
Rated current	25A	25A	32A	32A	20A
Rated insulation voltage	1000V				
Rated impulse withstand voltage	8kV				
Reated short-circuit breaking capacity	3000A				
Utilization category	DC-PV2				
Mounting	Din Rail/ Panel Mounting				
Standard	Comply woith IEC60947-3				

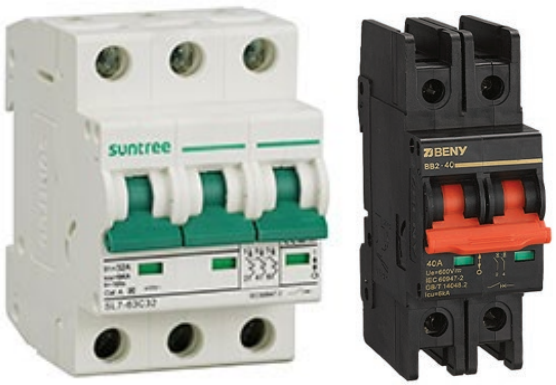
Ordering Information

Order No	Model No	Product	Pole	Ampere	Voltage
294 100	BYH-32	Enclosed DC Isolators - IP	4Pole	32	1000
294 200	BYHF-32	Enclosed Type - IP 65	4Pole	20	230-440
294 201	BYHF-32	Enclosed Type - IP 65	4Pole	25	230-440
294 202	BYHF-32	Enclosed Type - IP 65	4Pole	32	230-440
294 203	BYHF-63	Enclosed Type - IP 65	4Pole	40	230-440
294 204	BYHF-63	Enclosed Type - IP 65	4Pole	63	230-440

Technical Specifications

Model	BYH-32	BYH-32	BYH-63
Pole	2P 4P	3P 4P	3P 4P
Standard	AS60947.3:2018,IEC60947.3	IEC60947.3	IEC60947.3
Utilization Category	DC-PV2 / DC-21B		
Rated Operational voltage (Ue)	500V, 600V, 800V, 1000V	230V - 440V	230V - 440V
Rated Current	9A-40A	20A 25A 32A	40A 63A
Mechanical Cycle	15000	10000	10000
Electrical Cycle	1000	1500	1500
Protectiona Degree	IP66 enclosure /IP20 switch body	IP65 enclosure	IP65 enclosure
Polarity	No Polarity		
Certificate	TUV / CB	CE	CE

MINIATURE CIRCUIT BREAKERS - DC



DC miniature circuit breakers in different current ratings are available for different installation requirements.

Suntree - Hongkong suntree

Ordering Information

Order No	Model No	Product	Pole	Ampere	Voltage
295820	ST16 - 2	DC Circuit Breakers	2Pole	16A	550V
295822	ST25 - 2	DC Circuit Breakers	2Pole	25A	550V
295912	ST25 - 4 - 1000	DC Circuit Breakers	4Pole	25A	1000V
295914	ST32 - 4 - 1000	DC Circuit Breakers	4Pole	32A	1000V

Technical Specifications

SL7 PV Servies Circuit Breaker		SL7-63			
Frame degree rated current (A)		63			
Electrical perfomance					
Ue Rated operating voltahe (V DC)		AC250V ACV415V DC440V DC550V DC800V DC1000V			
Rated Current In (A)		6-10-16-20-25-32-40-50-63			
Rated Insulation voltage Ui (V DC)		1000V			
ated Impact voltage Uimp (kV)		4			
Ultimate breaking capacity Icu (kA)		6	6	6	6
Run breaking capacity Ics (96Icu)		75%	75%	75%	75%
Curve type		C			
Trip type		Thermal - magnetic			
MECHANICAL	Actual average value	20000			
	Standard value	8500			
ELECTRIC	Actual average value	2500			
	Standard value	1500			
Control and indication					
Shunt release (SHT)		Option			
Undervoltage release (UNT)					
Auxiliary contact (AX)					
Alarm contact (AL)					
Connection and installation		In ≤ 32A,I ~ 25mm^2, I ≥ 40A, 10~ 35mm^2			
Wiring capacity (mm^2)		-10~ 35			
Ambient temperature (^{0}C)		≤ 2000			
Altitude		≤ 9596			
Relative humidity		3			
Pollution level		No obvious shock and vibration			
Installation Environment		Class |||			
Installation category		DIN Standard rail			
Installation					
Dimensions(W)x(H)x(Deep)	W	17.5	35	52.5	70
	H	80	80	80	80
	Deep	71	71	71	7
Weight (kg)		0.12	0.24	0.36	0.48

Beny- ZBENY

Ordering Information

Order No	Model No	Product	Pole	Ampere	Voltage
294300	BB2-40	DC Circuit Breakers	2Pole	25A	1000V
294301	BB2-40	DC Circuit Breakers	2Pole	25A	1000V

Technical Specifications

Order No	BB2-40
Poles	1P 2P 3P
Standard	IEC60947.2
Utilization Category	DC-21B
Rated Operational Voltage (Ue)	600V, 1000V, 1500V
Rated Current	3A 4A 6A 10A 13A 16A 20A 25A 32A 40A
Mechanical Cycle	20000
Electrical Cycle	4000
Protection Degree	IP65 enclosure / IP20 switch body
Polarity	No Polarity
Certificate	CE

FUSES AC/DC

AC/DC fuses & fuse holders are available in DIN mount type & screw mount type for AC & DC power systems.

DC Fuse Holder provides excellent protection for residential & commercial solar power systems.

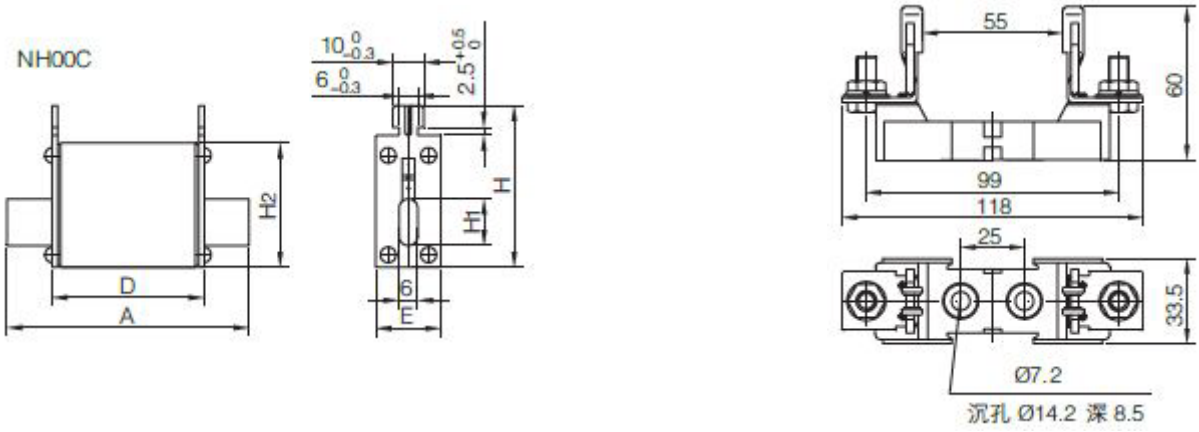
Galaxy - China

Ordering Information

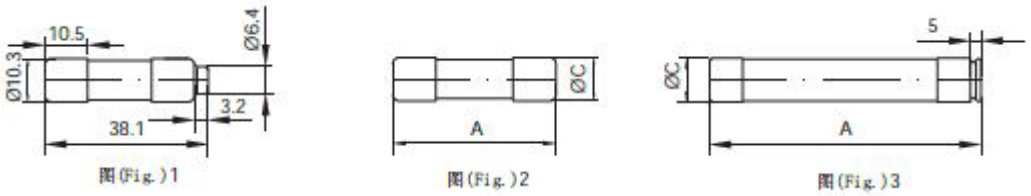
Order No	Model No	Product	Ampere	Voltage	Size
280504	NH 00	Low Voltage H.R.C. Fuse Links	32 A	500/690V	-
280505	NH 00	Low Voltage H.R.C. Fuse Links	40 A	500/690V	-
280506	NH 00	Low Voltage H.R.C. Fuse Links	63 A	500/690V	-
280507	NH 00	Low Voltage H.R.C. Fuse Links	80 A	500/690V	-
280508	NH 00	Low Voltage H.R.C. Fuse Links	100 A	500/690V	-
280509	NH 00	Low Voltage H.R.C. Fuse Links	125 A	500/690V	-
280550	RT16-00	Low Voltage Fuse Bases (bakelite)	160 A	690V	-
280600	RO 15	Cylindrical Fuse	32 A	500/690V	10x38
280610	RO 15	Cylindrical Fuse	32 A	500/690V	10x38
280650	RT 18-32	Cylindrical Fuse Holder	32 A	500/690V	10x38
280705	YRPV-30	Cylindrical Fuse	32 A	DC 1000V	10x38
280710	YRPV-30	Cylindrical Fuse	32 A	DC 1000V	10x38
280750	YRPV-30-10x38A	Cylindrical Fuse Holder	32 A	DC 1000V	10x38

Technical Specifications

Model Nos.	Voltage	A	D	E	H	H1	H2
NH 00	500/690	78	53	30	60	15	48
RT16-00	690	-	-	-	-	-	-



Model Nos.	Voltage	A	C	A1	A2	B	H1	H2
RO 15	380/500	38	10.3	-	-	-	-	-
RT18 - 32	500	-	-	79	81	18	61	80



ENERGY METERS

Energy meters are available in different types depend on mounting, display & input supply.

Energy meters are designed & manufactured use in advanced technologies of research and developments, including microelectronic techniques, specialized large-scale IC (integrated circuit), digital sampling and processing technology, and SMT technique.

Technical performances of energy meters are conform to International Standards IEC 62053-21. Energy meters has excellent long-term reliability, compact sizes, light weight, and perfect appearance.

LOGOSMETER - Hongkong

logosmeter

Ordering Information

Order No	Model No	Product	Phase	Mount	Display	Ampere
250 600	LEM011JC	Energy Meters	1 Phase	DIN	LCD	10(60)A
250 605	LEM011JAG	Energy Meters	1 Phase	DIN	Step Motor	10(60)A
250 630	LEM052JC	Energy Meters	1 Phase	Front Board	LCD	10(60)A
250 635	LEM052AG	Energy Meters	1 Phase	Front Board	Step Motor	10(60)A
250 650	LEM061JC	Energy Meters	3 Phase	Front Board	LCD	20(120)A
250 655	LEM061AG	Energy Meters	3 Phase	Front Board	Step Motor	20(120)A
250 660	LEM061AI	Energy Meters	3 Phase	Front Board	LCD	5/A
250 670	LEM021MC	Energy Meters	3 Phase	DIN	LCD	10(60)A

Technical Specifications

Accuracy Class - 1
Voltage - 230V/440V
AC voltage 4kV for 1 minute, 1.2/50µs wavefrom impulse voltage 6kV.

LEM011AG

LEM052AG

LEM061AG

LEM021MC

LEN011JC

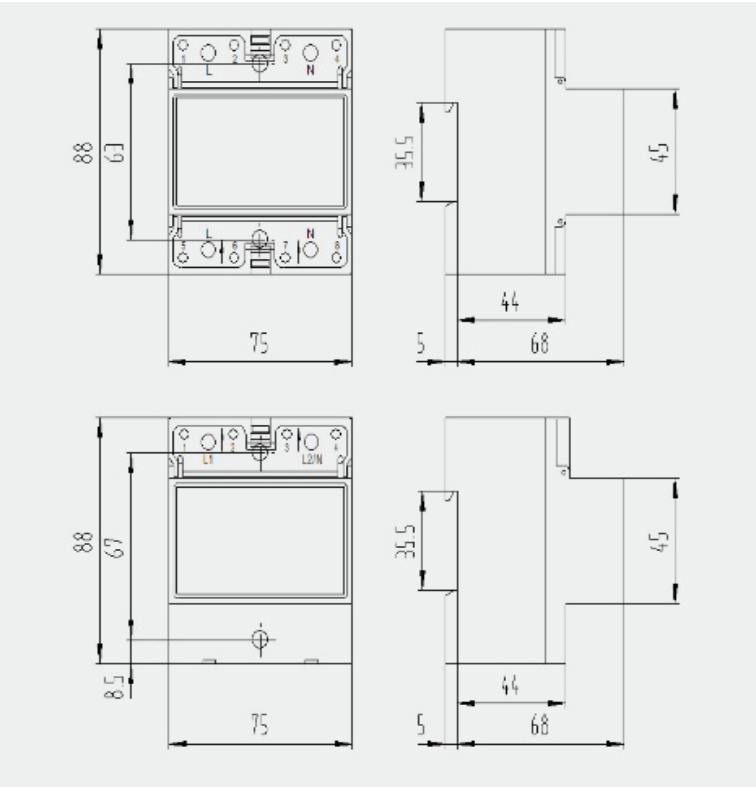
LEM052JC

LEM061JC/LEM061AI

Technical Specifications

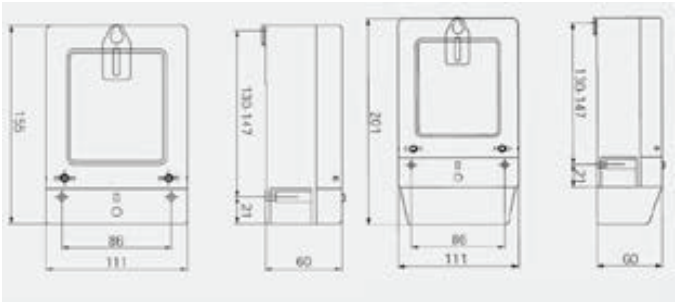
Product configuration table - LEM 011

Configuration Options	Configuration Code	
	AG	JC
5 + 1 digits step motor impulse register	●	
6 + 1 digits LCD		●
Two 6 digits LCD to display total power and real-time power		
Can be mounted on the front PANEL and the distance of two mounting holes center is 63mm (picture 1)	●	●
Can be mounted on the front PANEL and the distance of two mounting holes center is 67mm (Picture 2)		
Far infrared data communication port and RS485 data communication port		
Inside load switch for the remote control credit		
Type S (Wiring diagram - 1)	●	●
Type T (Wiring diagram - 2)		
Type S (Wiring diagram - 3)		



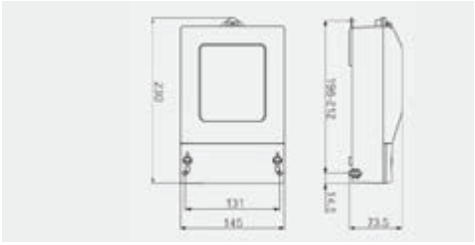
Technical Parameters - LEM 052

Model	Reference voltage (V)	Current specifications (A)	Starting Current (A)	Insulation performance
LEM052XX	230	10(60)	0.02 0.04 0.08	AC voltage 4kV for 1 minute, 1.2/50us waveform impulse voltage 6kV



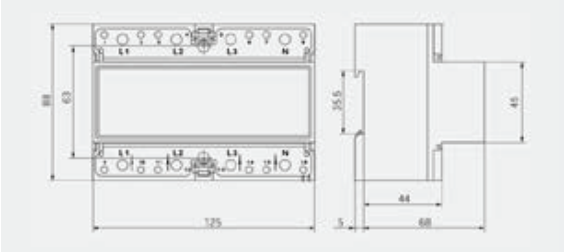
Technical Parameters - LEM 061

Model	Reference voltage (V)	Current specifications (A)	Starting Current (A)	Insulation performance
LEM061XX	3×230	CT/5 20(120)	0.02 0.04 0.08	AC voltage 4kV for 1 minute, 1.2/50us waveform impulse voltage 6kV



Technical Parameters - LEM 021

Model	Reference voltage (V)	Current specifications (A)	Starting Current (A)	Insulation performance
LEM021XX	3×230	10(60)	0.02 0.04 0.08	AC voltage 4kV for 1 minute, 1.2/50us waveform impulse voltage 6kV



NON METALIC ENCLOSURES

Outdoor Distribution Boards are tested for IP 65 according to IEC 60529 international standard. It comes with water proof transparent lid for outdoor installations. It has provisions for DIN mounting devices and comes with sufficient earth & neutral link for professional installation.

Outdoor Distribution Boards can use for power distribution, solar installation and many other electrical installation operates in any weather conditions.

Type	Description
WDB4	4 way (1 Row x4)
WDB6	6 way (1 Row x6)
WDB9	9 way (1 Row x9)
WDB13	13 way (1 Row x13)
WDB26	26 way (2 Rows x13)
WDB39	39 way (3 Rows x13)
WDB52	52 way (4 Rows x13)

SOLAR WALKWAYS

PRISMA solar walkways are designed & manufactured in our production facility.

Available in different designs & materials to cater different requirements in solar industry.

PRISMA - Sri Lanka

Custom Designs On Request

SOLAR CABLING ACCESSORIES

PIXEL solar PV connectors are used for outdoor environments & available for 2.5,4 & 6mm^2 solar cable sizes.

TUV approved PIXEL connectors ensure the stable connection.

PIXEL solar connector range consist of different type of connectors suitable for any solar installations.

PIXEL - China

Ordering Information

Order No	Model No	Product	IP Rating	Cable Size
295210	SY-MC4-1	IP67 MC4 Cable connector	IP 67	2.5,4.0,6.0
295330	SY-BY21-A/B	2 in 1 Y cable connector	IP 67	2.5,4.0,6.0
295300	SY-BB21-A/B	2 to 1 T-branch connector	IP 67	2.5,4.0,6.0
295320	SY-BB31-A/B	3 to 1 T-branch connector	IP 68	2.5,4.0,6.0

Technical Specifications

Product NO.	SY-MC4-1	SY-BY21-A/B	SY-BB21-A/B	SY-BA31-A/B
Insulation material	OPP	OPP	OPP	OPP
Rated Voltage	TUV 1000 DC/ UL 600V DC	TUV 1000 DC/ UL 600V DC	TUV 1000 DC/ UL 600V DC	TUV 1000 DC/ UL600V DC
Rated Current	20A-30A	20A-30A	20A-30A	20A-30A
Test voltage	6KV(50Hz,1Min)	6KV(50Hz,1Min)	6KV(50Hz,1Min)	6KV(50Hz,1Min)
Contact material	copper,tin-plated	copper,tin-plated	copper,tin-plated	copper,tin-plated
Contact resistance	Less than 0.5m ohm	Less than 0.5m ohm	Less than 0.5m ohm	Less than 0.5m ohm
Degree of protection	IP67	IP67	IP67	IP67
Pin dimension	4.0 MM	4.0 MM	4.0 MM	4.0 MM
Compatible Solar -cable	2.5/4.0 /6.0 mm² (14/12/10 AWG)	2.5/4.0 /6.0 mm² (14/12/10 AWG)	2.5/4.0 /6.0 mm² (14/12/10 AWG)	2.5/4.0 /6.0 mm² (14/12/10 AWG)
				

TOOLS & TESTERS

PROSKIT tools & testers are designed & manufactured as per relevant International Standards.

Durable & high quality tools are available for any installations in electrical & solar industries.

High quality, reliable, accurate PROSKIT testers are available for different applications in electrical & solar installations.

Proskit

Ordering Information

Order No	Model No	Product
120111	808-330A	ROUND CABLE CUTTER (215mm)
120115	8PK-A202	FORGING CABLE CUTTER (150mm)
120116	8PK-A203	FORGING CABLE CUTTER (200mm)
120118	8PK-SR250	Cable Cutter (600mm)
120119	8PK-SR500	Cable Cutter (800mm)
120129	CP-246	Solar Cable Strpper
120305	CP-3006FS2	Parallel Action Crimping Tool For MC 4
120105	CP-108	Wire Stripper Cutter
120121	608-369B	WIRE STRIPPING
120102	1PK-705Y	Side Cutting Plier (125mm)
120700	MT-1232	Professional 3 3/4 Autoranging Digital
120701	MT-1210	Professional Multimeter
120705	MT-2017/MT-2007N	Protective Function Analogue Multimeter

Technical Specifications

808 - 330 A

Made of S45C carbon sttel
Tool body made of HRC 45°± 3° & handle
Safety lock for easy storage
For cutting Thick wire up to 2/0 (70mm²) cable, 100 pair group telephone cable RG-174/RG-9 coax size

8PK-A202/8PK-A203

Made of SCM 440
Tool body made of HRC 45°± 3° & cutting edge HRC 60°± 5°
Heavy duty cable cutter has high-leverage jaw with shear-cut blades.
Do not cut steel or ACSR
Plastic coated handle.

Model No.	Application		OAL.(mm)
	Copper Cable	Aluminum cable	
8PK-A202	25mm² flexible	28mm² stranded	160
8PK-A203	38mm² flexible	38mm² stranded	210

8PK-A202

8PK-A203

8PK-SR250/8PK-SR500

SCM4 Chromium-Molybdenum-Steel forged, effcient and secure in operation.
Alloy-Aluminum handle, treate by T6 heart, strong durable and handy.
Soft rubber sleeve handle.

Model No.	Application Copper cable	OAL.(mm)
8PK-SR250	DIN 250mm²	600
8PK-SR500	DIN 500mm²	800

8PK-SR250

8PK-SR500

CP-246

Reliable stripping of the double layer insulated cables, particularly for solar cables 2.5/4/6 mm² (AWG 14/12/10) Special design for strips and grips in one motion simultaneously and precisely through without damage With adjustable length stop for accurate stripping length setting Unique spring action with dual colornon-slip handle design for easy operation.

Model No.			HRC of Cutting edge	OAL.(mm)
Body	Blade	Handle		
Zinc allov	SK5	TPR	56°± 2°	177

CP-3006FS2

For MC 4 solar connector (Multi-Contact) & 2.5/4.0/6.0 mm² (AWG 14/12/10) solar cable
Reliable: Parallel action crimping performance is consistent and accurate
Practical: Safety crimp release helps eliminate rejected terminations due to incorrect positioning.
Comfortable: Ergonomically shaped non-slip TPR handle for comfortable use in all conditions

Versatile: Interchangeable die sets for wide range of applications.

Blade	Handle	HRC of	OAL.(mm)
S50C	TPR	45°± 3°	254

CP-108

Made of 65Mn carbon steel with black oxide finish for anti-rust.
Comes with adjustable screw for stripping sizes adjustment from AWG 30~10.
With cutting function.
Has adjustable screw stop for different wire sizes, and cushion grips. Cut and strips both solid and stranded wire, cleanly and neatly. Hardened with ground blades.

Material	Handle	HRC of	OAL.(mm)
65Mn	PVC	45°± 3°	127

608-369B

Made of Zinc alloy steel with SS41 carbon steel blade.
CNC lathe processed, accurately stripping, leave wire undamaged.
For automatically stripping PVC, Teflon and silicon wire 1.0, 1.6, 2.0, 2.6, 3.2 mm, quick and efficient.
Nonslip handle and spring loaded design for force saving and user comfort.

Material			Hardness	OAL.(mm)
Body	Blade	Handle		
8PK-A202	SS41	Pvc	Body: HV 450 ~ 800 Blade: HRC 45° - 55°	170

1PK-705Y

High quality carbon steel S45C forging made hardened finished
Spring-loaded for self-opening action to reduce fatigue when long term use
Plastic coated handles for easy operation
Particularly design for electronic and precision field
Application: Hard steel:0.8mm
Soft steel: 1.6mm
Copper: 2.0mm

Material	Body	OAL.(mm)
S45C	HRC 45°± 3°	125

MT-1232

Complies with the newest CE CATIII safety standard, 1M drop protection.
3 3/4 digits 3999 counts
Large and easy to read display panel
Overload and mis-use protection
Auto / manual both range
Extra functions: Relative reference, LED backlight, data hold, auto power off, low battery indication.
Including CATIII test lead and themocouple probe.

Model No.	MT-1232
Digits	3 3/4 diaits 3999 counts
Accuracy	0.5% best accuracy
DCV	400mV/4V/40V/400V ±(0.5%+4d), 600V ±(1.0%+4d)
ACV	4V/40V/400V ±(0.8%+6d), 600V ±(1.0%+6d)
DCA	400μA / 4000μA / 40mA/400mA ±(1.0%+10d), 10A±(1.2%+10d)
ACA	400μA/4000μA/40mA/400mA ±(1.5%+10d), 10 A±(2.5%+15d)
Resistance	400Ω ±(0.8%+5d), 4k/40k/400K/4MΩ ±(0.8%+4d), 40MΩ ±(1.2%+10d)
Frequency	1/10/100/1K/10K/100K/1M/10MHz ±(0.5%+10d)
Capacitance	4nF ±(0.5%+9d), 40nF/400nF/4μF/40μF ±(3.5%+8d), 100μF ±(5.0%+8d)
Temperature	(-20˚C~1000˚C) < 400˚C±(1.0%+5d), (-20˚C~1000˚C) ≥ 400˚C±(1.5%+15d)
Fuse	10A/250V
Power source	1.5V AA x 2 (not included)
Size (HXWXD)mm	147 x 78 x 41 mm
Test leads model no.	MT-9907
Individual packing	Color Box

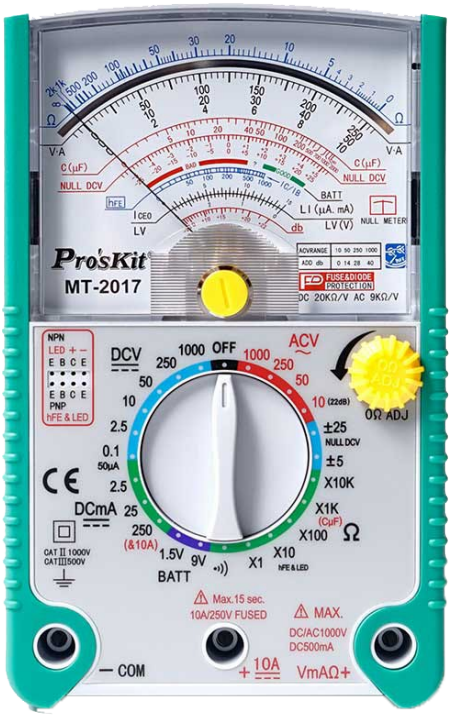
MT-1210

With a back-light for easy reading in low light situations
Large and easy to read display panel
Display: 3 1/2 digits
Excellent value for money
User friendly interface is ideal for students, DIY market.

Model No.	MT-1210
Digits	3 1/2 digits 1999 counts
Accuracy	1.0% best accuracy
DCV	200mV/2V/20V/200V ±(1.0%+2d) 500V ±(1.2%+5d)
ACV	200/500V ±(2.5%+10d)
DCA	200μA/2mA/20mA/200mA ±(2.0%+5d) 10A ±(3.0%+5d)
Resistance	200Ω ±/2K/20K/200KΩ ± (1.0%+5d) 2MΩ ± (1.5%+5d)
Extra function	Continuity w/ beeper, Diode test, Transistor test, Low battery indication
EN61010-1 CAT II	600V
Power source	9V(6F22)×1
Size (HXWXD)mm	147×74×35mm
Individual packing	Blister card

MT-2017

Model No.	MT-2017
DCV	0.1/2.5/10/50/250V ±3.0%FSD, 1000V ±4.0%FSD
Null DCV	DC±5V, ±25V ±5.0%FSD
ACV	10/50/250V ±4.0%FSD, 1000V±5.0%FSD
DCA	50μ//2.5m/25m/250mA ±3.0%FSD,10A ±4.0%FSD
Resistance	×1(0.2~2kΩ)/ ×10(2~20kΩ)/ ×100(20~200kΩ)/ ×1k(200~2MΩ)/ ×10kΩ(2k~20MΩ) ±4.0%ARC of scale length
Capacitance	C(R×1k): 2000μF(Approx.) Max
Battery check	1.5V/9V
Transistor check	Yes
Diode & LED test	Yes
Continuity with beeper	Yes
Front panel controls	Range selector switch with “OFF” position, 0Ω adjust knob
Battery	1.5V AAA x 2 and 9V(NEDA1604) x 1
Size	160x105x40 mm
Individual Packing	Color box



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