

SINGLE PHASE & SINGLE MPPT

SGT-S (S) Series

Application: Residential Use



SUPERIOR PERFORMANCE

- Maximum efficiency of 97.8%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



HIGH RELIABILITY

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI function



INTELLIGENT MAINTENANCE

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app

Model	SGT10-2KW-230V-S(S)		SGT15-3KW-230V-S(S)		SGT16-6KW-230V-S(S)	
Efficiency						
Max. Efficiency			97.8%			
European Efficiency	96.5%		96.8%		96.8%	
Input (PV)						
Max. Input Voltage			500V			
Max. PV Configuration (STC)			150%			
Rated Input Voltage			360V			
Max. Input Current			15A			
Max.Short Circuit Current			20A			
Start Input Voltage			70V			
MPPT Operating Voltage Range			50V-490V			
Max. Number of PV Strings			1			
No. of MPPTs			1			
Output (Grid)						
Rated AC Active Power	2,000W		3,000W		3,600W	
Max. AC Apparent Power	2,200VA		3,300VA		3,600VA	
Max. AC Output Current	10A		15A		16A	
Rated AC Voltage			220V/230V, L+N+PE			
AC Voltage Range①			160V-300V (Adjustable)			
Rated Grid Frequency			50Hz / 60Hz			
Grid Frequency Range②			45Hz-55Hz / 55Hz-65Hz (Adjustable)			
THDI			<3% (Rated Power)			
DC Current Injection			<0.5%In			
Power Factor			>0.99 Rated Power (Adjustable 0.8 LD - 0.8 LG)			
Protection						
DC Switch			Yes			
Anti-Islanding Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short Circuit Protection			Yes			
DC Reverse Protection			Yes			
Surge Arrester			DC Type III (Type II optional) / AC Type III (Type II optional)			
Insulation Detection			Yes			
Leakage Current Protection			Yes			
General						
Topology			Transformerless			
IP Rating			IP65			
Night Self Consumption			<1W (Standard)			
Cooling			Natural Cooling			
Operating Temperature Range			-25 ℃ -60 ℃			
Relative Humidity Range			0-100%			
Max. Operating Altitude			4000m			
Dimensions (W*H*D)			320mm*344mm*137mm			
Weight			6.5Kg			
HMI & COM						
Display			Wireless & APP+LED, LCD (Optional)			
Communication			Optional: WiFi / GPRS / RS485 / LAN			
Certification						
Safety			IEC62109-1, IEC62109-2			
Grid Code			DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1			
Warranty			5 Years			

Remarks: · ①② The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

SINGLE PHASE & DUAL MPPT

SGT-D (S) Series

Application: Residential Use



SUPERIOR PERFORMANCE

- Maximum efficiency of 98.2%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



HIGH RELIABILITY

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI function



INTELLIGENT MAINTENANCE

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app

Model	SGT20-4KW-230V-D (S)		SGT25-5KW-230V-D (S)		SGT27-6KW-230V-D (S)	
Efficiency						
Max. Efficiency			98.2%			
European Efficiency	97.0%		97.3%		97.4%	
Input (PV)						
Max. Input Voltage			550V			
Max. PV Configuration (STC)			150%			
Rated Input Voltage			360V			
Max. Input Current			30A (2*15A)			
Max.Short Circuit Current			40A (2*20A)			
Start Input Voltage			90V			
MPPT Operating Voltage Range			70V-540V			
Max. Number of PV Strings			2 (1/1)			
No. of MPPTs			2			
Output (Grid)						
Rated AC Active Power	4,000W		5,000W		6,000W	
Max. AC Apparent Power	4,400VA		5,500VA		6,000VA	
Max. AC Output Current	20A		25A		27.3A	
Rated AC Voltage			220V/230V, L+N+PE			
AC Voltage Range①			160V-300V (Adjustable)			
Rated Grid Frequency			50Hz / 60Hz			
Grid Frequency Range②			45Hz-55Hz / 55Hz-65Hz (Adjustable)			
THDI			<3% (Rated Power)			
DC Current Injection			<0.5%In			
Power Factor			>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)			
Protection						
DC Switch			Yes			
Anti-Islanding Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short Circuit Protection			Yes			
DC Reverse Protection			Yes			
Surge Arrester			DC Type III(Type II optional) / AC Type III(Type II optional)			
Insulation Detection			Yes			
Leakage Current Protection			Yes			
General						
Topology			Transformerless			
IP Rating			IP65			
Night Self Consumption			< 1W (Standard)			
Cooling			Natural cooling			
Operating Temperature Range			-25 ℃ -60 ℃			
Relative Humidity Range			0-100%			
Max. Operating Altitude			4000m			
Dimensions (W*H*D)			350mm*347mm*137mm			
Weight			8.5Kg			
HMI & COM						
Display			Wireless & APP+LED, LCD (Optional)			
Communication			Optional: WiFi / GPRS / RS485 / LAN			
Certification						
Safety			IEC62109-1, IEC62109-2			
Grid Code			DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1			
Warranty			5 Years			

Remarks: · ①② The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

SINGLE PHASE & DUAL MPPT

SGT-D (S) Series

Application: Residential Use



SUPERIOR PERFORMANCE

- Maximum efficiency of 98.2%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



HIGH RELIABILITY

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI function



INTELLIGENT MAINTENANCE

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations

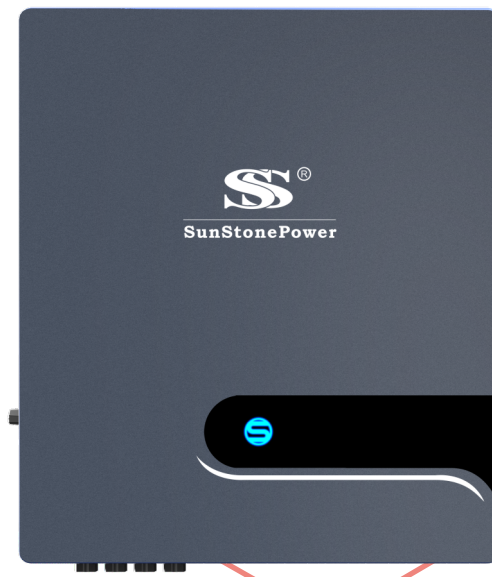
Model	SGT35-7KW-230V-D(S)		SGT40-8KW-230V-D (S)		SGT45-10KW-230V-D (S)	
Efficiency						
Max. Efficiency			98.2%			
European Efficiency			97.5%			
Input (PV)						
Max. Input Voltage			550V			
Max. PV Configuration (STC)			150%			
Rated Input Voltage			360V			
Max. Input Current	40A (2*20A)				50A (2*15A+20A)	
Max.Short Circuit Current	52A (2*26A)				66A (2*20A+26A)	
Start Input Voltage			90V			
MPPT Operating Voltage Range			60V-540V			
Max. Number of PV Strings	2 (1/1)				3 (2/1)	
No. of MPPTs			2			
Output (Grid)						
Rated AC Active Power	7,000W				8,000W 10,000W	
Max. AC Apparent Power	7,700VA				8,800VA 10,000VA	
Max. AC Output Current	35A				40A 45.5A	
Rated AC Voltage			220V/230V, L+N+PE			
AC Voltage Range①			160V-300V (Adjustable)			
Rated Grid Frequency			50Hz / 60Hz			
Grid Frequency Range②			45Hz-55Hz / 55Hz-65Hz (Adjustable)			
THDI			<3% (Rated Power)			
DC Current Injection			<0.5%In			
Power Factor			>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)			
Protection						
DC Switch			Yes			
Anti-Islanding Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short Circuit Protection			Yes			
DC Reverse Protection			Yes			
Surge Arrester			DC Type III(Type II optional) / AC Type III(Type II optional)			
Insulation Detection			Yes			
Leakage Current Protection			Yes			
General						
Topology			Transformerless			
IP Rating			IP65			
Night Self Consumption			< 1W (Standard)			
Cooling			Natural cooling			
Operating Temperature Range			-25 ℃ -60 ℃			
Relative Humidity Range			0-100%			
Max. Operating Altitude			4000m			
Dimensions (W*H*D)			400mm*450mm*170mm			
Weight			16Kg			
HMI & COM						
Display			Wireless & APP+LED, LCD (Optional)			
Communication			Optional: WiFi / GPRS / RS485 / LAN			
Certification						
Safety			IEC62109-1, IEC62109-2			
Grid Code			DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1			
Warranty			5 Years			

Remarks: · ①② The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

THREE PHASE & DUAL MPPT

SGT-D (T) Series

Application: Residential & Small C&I Use



SUPERIOR PERFORMANCE

- Maximum efficiency of 98.3%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids
- Compact for easy installation



HIGH RELIABILITY

- IP66 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI function



INTELLIGENT MAINTENANCE

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations

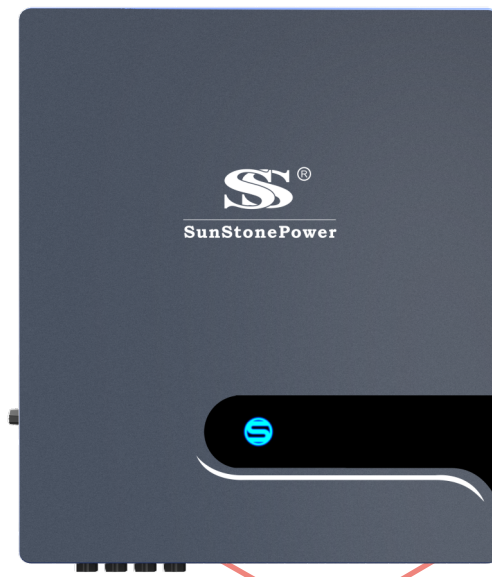
Model	SGT25-5KW -400V-D (T)	SGT30-6KW -400V-D (T)	SGT40-8KW -400V-D (T)	SGT50-10KW -400V-D (T)	SGT60-12KW -400V-D (T)	SGT60-15KW -400V-D (T)
Efficiency						
Max. Efficiency	98.2%			98.3%		
European Efficiency	97.8%					
Input (PV)						
Max. Input Voltage	1100V					
Max. PV Configuration (STC)	150%					
Rated Input Voltage	620V					
Max. Input Current	2*15A			15A+2*15A		
Max.Short Circuit Current	2*20A			20A+2*20A		
Start Input Voltage	180V					
MPPT Operating Voltage Range	160V-1000V					
Max. Number of PV Strings	2 (1/1)			3 (1/2)		
No. of MPPTs	2					
Output (Grid)						
Rated AC Active Power	5,000W	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,200VA	13,200VA	16,700VA
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*17A	3*20.2A	3*25.3A
Rated AC Voltage	380V / 400V / 415V, 3W+N+PE					
AC Voltage Range①	260V-510V (Adjustable)					
Rated Grid Frequency	50Hz / 60Hz					
Grid Frequency Range②	45Hz-55Hz / 55Hz-65Hz (Adjustable)					
THDI	<3%@Rated Power					
DC Current Injection	<0.5%@Rated Current					
Power Factor	> 0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)					
Protection						
DC Switch	Yes					
Anti-Islanding Protection	Yes					
AC Overcurrent Protection	Yes					
AC Short Circuit Protection	Yes					
DC Reverse Protection	Yes					
Surge Arrester	DC Type III(Type II optional) / AC Type III(Type II optional)					
Insulation Detection	Yes					
Leakage Current Protection	Yes					
General						
Topology	Transformerless					
IP Rating	IP66					
Night Self Consumption	< 1W (Standard)					
Cooling	Natural cooling					
Operating Temperature Range	-25℃ -60℃					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Dimensions (W*H*D)	398mm*460mm*190mm					
Weight	16.8Kg			18.7Kg		
HMI & COM						
Display	Wireless & APP +LED, LCD (Optional)					
Communication	RS485, Optional: WiFi / GPRS / LAN					
Certification						
Safety	IEC62109-1, IEC62109-2					
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, RD 1699/661&413, IEC 61727/62116, AS4777.2					
Warranty	5 Years					

Remarks: · ①② The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

THREE PHASE & DUAL MPPT

SGT-230V-D (T)

Application: Residential & Small-Medium C&I Use



SUPERIOR PERFORMANCE

- Maximum efficiency of 98.4%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids
- Compact for easy installation



HIGH RELIABILITY

- IP66 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI function



INTELLIGENT MAINTENANCE

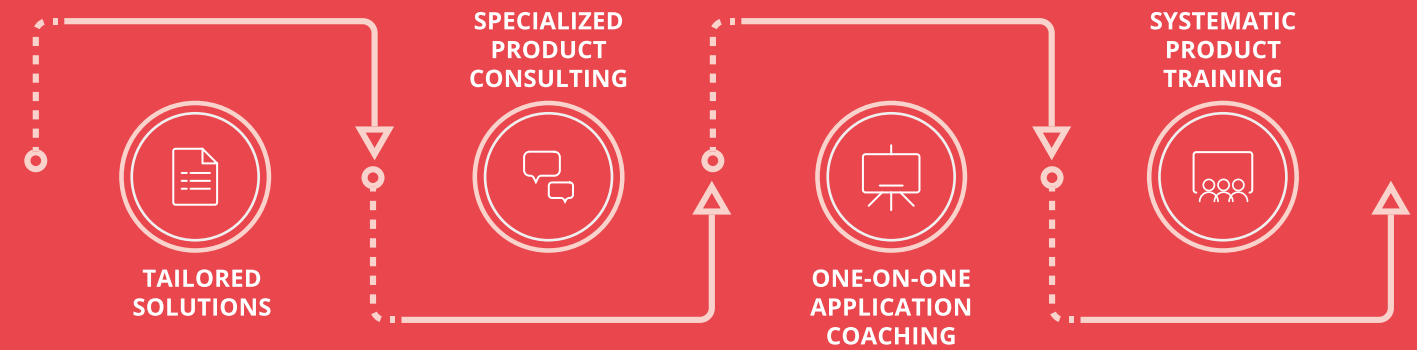
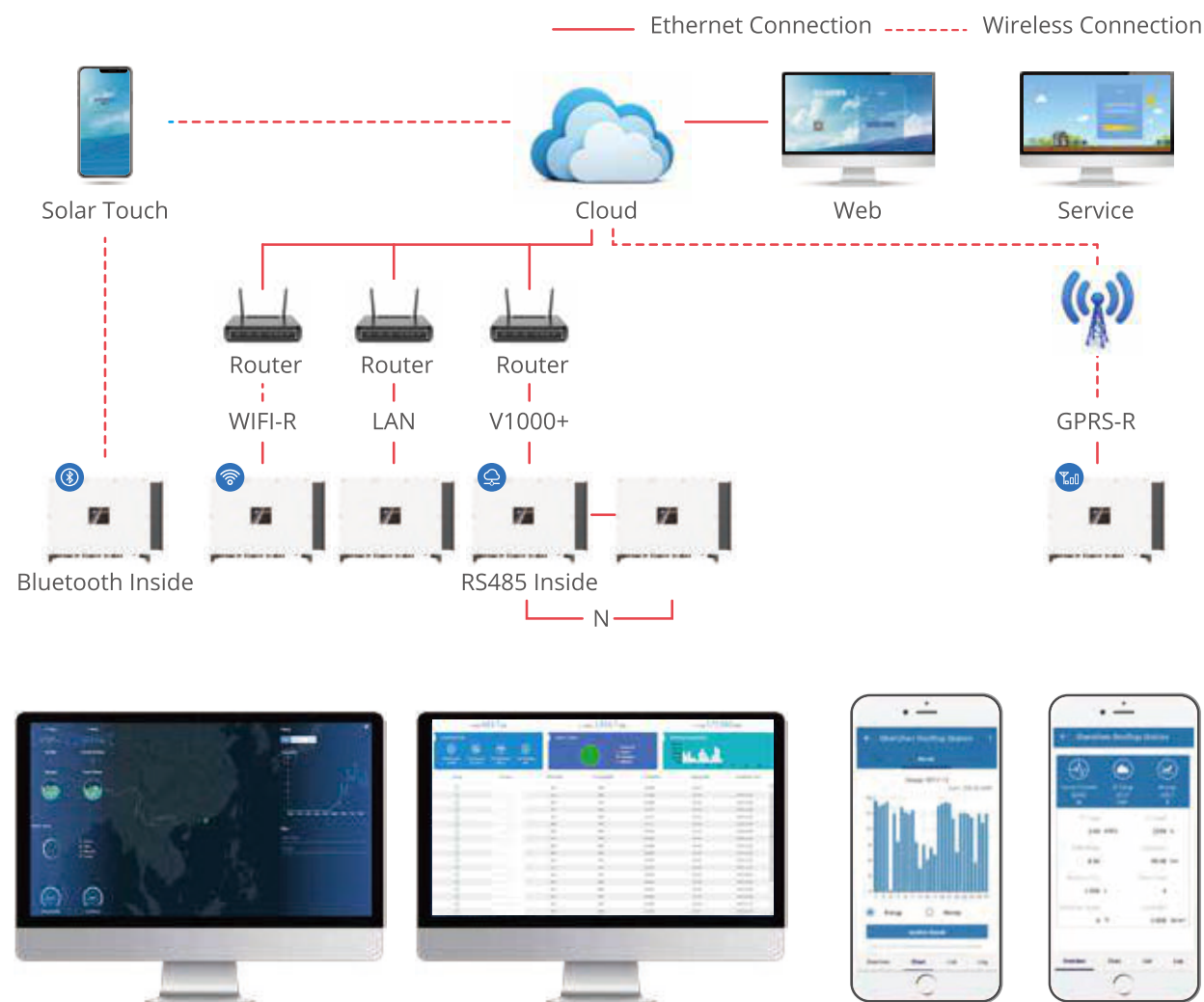
- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations

Model	SGT50-10KW -400V-D (T)	SGT75-15KW -400V-D (T)	SGT86-17KW -400V-D (T)	SGT100-20KW -400V-D (T)	SGT111-22KW -400V-D (T)	SGT120-25KW -400V-D (T)	SGT150-30KW -400V-D (T)
Efficiency							
Max. Efficiency	98.4%						
European Efficiency	97.8%	98.0%					
Input (PV)							
Max. Input Voltage	1100V						
Max. PV Configuration (STC)	150%						
Rated Input Voltage	620V						
Max. Input Current	15A+30A	2*30A					40A/30A
Max.Short Circuit Current	20A+40A	2*40A					50A/37.5A
Start Input Voltage	180V						
MPPT Operating Voltage Range	160V-1000V						
Max. Number of PV Strings	3 (1/2)	4 (2/2)					
No. of MPPTs	2						
Output (Grid)							
Rated AC Active Power	10,000W	15,000W	17,000W	20,000W	22,000W	25,000W	30,000W
Max. AC Apparent Power	11,000VA	16,500VA	18,700VA	22,000VA	24,200VA	27,500VA	33,000VA
Max. AC Output Current	3*16.8A	3*25.3A	3*28.6A	3*33.7A	3*37A	3*39.8A	3*50.2A
Rated AC Voltage	380V / 400V / 415V, 3W+N+PE						
AC Voltage Range①	260V-510V (Adjustable)						
Rated Grid Frequency	50Hz / 60Hz						
Grid Frequency Range②	45Hz-55Hz / 55Hz-65Hz (Adjustable)						
THDI	<3%@Rated Power						
DC Current Injection	<0.5%@Rated Current						
Power Factor	> 0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)						
Protection							
DC Switch	Yes						
Anti-Islanding Protection	Yes						
AC Overcurrent Protection	Yes						
AC Short Circuit Protection	Yes						
DC Reverse Protection	Yes						
Surge Arrester	DC Type III(Type II optional) / AC Type III(Type II optional)						
Insulation Detection	Yes						
Leakage Current Protection	Yes						
General							
Topology	Transformerless						
IP Rating	IP66						
Night Self Consumption	<1W (Standard)						
Cooling	Natural cooling	Fan cooling					
Operating Temperature Range	-25 C -60 C						
Relative Humidity Range	0-100%						
Max. Operating Altitude	4000m						
Dimensions (W*H*D)	398mm*460mm*190mm						
Weight	18.7Kg	20.1Kg				20.3Kg	
HMI & COM							
Display	Wireless & APP +LED, LCD (Optional)						
Communication	RS485, Optional: WiFi / GPRS / LAN						
Certification							
Safety	IEC62109-1, IEC62109-2						
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, RD 1699/661&413, IEC 61727/62116, AS4777.2						
Warranty	5 Years						

Remarks: · ①② The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.



- Suitable for residential/commercial/storage applications
- Cloud services provided from Europe, the Americas, Singapore, India and China
- Monitoring the operational status of inverters, generators, communication modules, energy storage within the system
- Full visibility into energy consumption and production processes
- Remote diagnosis and detection technology with operational data visualization and intelligent analysis



AFTER SALE SERVICE

WORRY-FREE WARRANTY

- 66-month standard warranty
- Up to \$10M product liability
- Insurance for shipped inverters

REPLACEMENT SERVICE

- Spare units provided for quick replacement of failures
- Remaining warranty transferred automatically for defective units

RESPONSIVENESS

- Prompt response to quality issues and service requests from partners
- Expertise in various field application to assist with problem-solving